Summer 5-25-2019

2019 Rose-Hulman Institute of Technology : One-Hundred and Forty-First Commencement

Rose-Hulman Staff

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2019 COMMENCEMENT PROGRAM

Prelude ................................................................. White Chapel Brass

Academic Procession ........................................... Erik Z. Hayes, BS, MS
Grand Marshal, Vice President for Student Affairs and Dean of Students

Introduction ....................................................... James A. Goecker, BS, MA, MS
Vice President for Enrollment Management

Processional ................................................................ The Rose-Hulman Joint Service ROTC Color Guard and
Indianapolis Fire/flighters Emerald Society Bagpipers

National Anthem ..................................................... Rose-Hulman Performing Arts Ensemble

Welcome ............................................................... Sydney J. Black
Past President, Student Government Association

President’s Remarks .............................................. Robert A. Coons, BS, MBA
President

Comments from Senior Class ................................ Ross Klauer
President, Senior Class

Awarding of Heminway Medal ................................. Anne M. Houtman, BA, MA, DPhil
Provost and Vice President for Academic Affairs
and Professor of Biology and Biomedical Engineering

John T. Royse Award ............................................... Erik Z. Hayes

Herman A. Moench Distinguished Senior Commendation .......................... Richard P. Ditteon, BS, MS, PhD
Professor of Physics and Optical Engineering

Recognition of the Special Award Recipients .................... Anne M. Houtman

Introduction of Honorary Degree Recipient and
Commencement Speaker W. Darin Moody .......................... Ella Ingram, BA, PhD
Associate Dean of Professional Development
and Professor of Biology

Awarding of Honorary Degree .................................. Robert A. Coons

Commencement Address ........................................ W. Darin Moody, BS
Senior Vice President, Eli Lilly and Company

Recognition of the Fifty-Year Graduates ......................... Anne M. Houtman

Conferring of Undergraduate Degrees and
Recognition of Students Anticipating Degrees ................. Robert A. Coons

Turning of the Tassels .............................................. Erik Z. Hayes

Conferring of Master’s Degrees .................................... Robert A. Coons

Greeting from Alumni ............................................... Gregory M. Gotwald, BS
President, Alumni Advisory Board

Farewell ............................................................... Gavin Karr
Past President, Student Government Association

“Dear Old Rose” ..................................................... White Chapel Brass

Recessional ............................................................. White Chapel Brass
Alma Mater

*Music by Raymond Mech*

*Lyrics by Andrew Mech, PhD, Professor of Mechanical Engineering*

Here in central Indiana
is the school we know is best.
Rose-Hulman, Yes, our Alma Mater
far surpasses all the rest.
Sing her glories and her praises
in every way she does excel.
Rose-Hulman, you’re our Alma Mater
our Alma Mater loved so well.

Rose did more than set foundations
for the work that was to come.
The people here became as family;
Rose became another home.
Though we live at quite a distance
and time has passed since our farewell,
Rose-Hulman you have grown yet dearer
our Alma Mater loved so well.

Dear Old Rose

*The School Fight Song*

*Words and Music by Malcolm C. Scott, Class of 1922*

Dear Old Rose
The sweetest flower that grows
Here’s to your colors rose and white
Here’s to the ones who’ve kept them bright.
Colors true for those who honor you
Here’s to everything you’ve done,
Here’s to every fight you’ve won.
Dear Old Rose.

2019 Class Photo

Be sure to download your own copy of the 2019 class photo, courtesy of the Office of Alumni Relations.

[www.rose-hulman.edu/commencement19](http://www.rose-hulman.edu/commencement19)
Extensive operational and engineering experiences, especially globally, have brought W. Darin Moody back to his alma mater to address the Class of 2019 about the challenges of an ever-changing world in science, technology, engineering and mathematics.

Moody has spent his entire 32-year career with Eli Lilly and Company, after earning a bachelor’s degree in chemical engineering in 1987 from Rose-Hulman Institute of Technology. His current leadership role as senior vice president involves oversight of corporate internal manufacturing operations located in Indiana, Puerto Rico, Ireland, Spain, and Brazil, along with coordination of a global network of external manufacturing partners.

Moody also is responsible for continuous improvement processes and Six Sigma initiatives within Lilly’s global manufacturing plants, and supports a variety of technology innovations in the areas of small molecules, biologics, E.coli and dry products.

“While excelling professionally, Darin has never forgotten his alma mater,” says President Robert A. Coons. “His commitment to Rose-Hulman is evidenced in both time and resources; he is deeply invested in the institution’s ongoing success as the nation’s premier undergraduate engineering institution. And as an active member of our Board of Trustees, he continues to bring a unique and thoughtful perspective to the table.”

In 2016, Moody was promoted to senior vice president after serving as vice president of Lilly’s corporate engineering and global health safety and environment division. His career with the company began as a process design engineer within the corporate engineering organization, where he assisted in the design and construction of manufacturing facilities. He spent three years as general manager of a plant in Liverpool, England, and was general manager of active pharmaceutical ingredient operations in Indianapolis.

Diversity is an area of special interest to Moody. As a member of the Rose-Hulman Board of Trustees since 2007, he has participated in several initiatives to transform the institute by changing attitudes, along with the gender and racial makeup of the student body, out of a conviction that improving diversity is important for the long-term prosperity of the school. He also has been a member of the trustees’ committees involving audit, board affairs, enrollment management and honorary degrees.

Moody is a past member of the Board of Advisors for the Minority Engineering Program of Indianapolis and a member of the Board of Directors of Downtown Indy Inc. He previously served as a member of the International Leadership Forum of the International Society of Pharmaceutical Engineers.

As a Rose-Hulman student, Moody was a member of the American Institute of Chemical Engineers, National Society of Black Engineers, Rose Astronomical Society, Alpha Chi Sigma professional chemistry fraternity, and Omega Chi Epsilon chemical engineering honor society.

Moody was presented the Rose-Hulman Alumni Association’s Career Achievement Award in 2007 and has been an admissions volunteer for the Institute.

He resides in Indianapolis with his wife, Alison, and stepdaughter, Rachel.
FIFTY-YEAR COMMEMORATIVE DEGREES

For more than 130 years, Rose-Hulman alumni have been making positive contributions to society as scientists, engineers, and mathematicians. Success has not been limited to their career areas. They serve their local communities through civic organizations, youth activities, and churches. Much of the recognition Rose-Hulman enjoys today is because of our alumni. Rose-Hulman graduates make an impact. Their achievements as scientists, engineers, mathematicians, and concerned citizens translate into a reputation of quality for their alma mater.

Earlier today, we recognized the contributions of the Class of 1969 by presenting commemorative degrees to those who have been alumni for 50 years. The diplomas they received honor their dedication of time and talent to their careers, society, and Rose-Hulman.

THE FOLLOWING MEMBERS OF THE CLASS OF 1969 RETURNED TO CAMPUS FOR TODAY’S CEREMONY:

Morgan Bruck
James Coles
Eric Dany
R. Alan Englehart
Stephen Hillman

David Hoecker
David Hohlfeldt
Lawrence Lynn
Thomas Michaelis
John Newlin

John Piper
David Ripple
Donald Royer
Bill Schindel
David Trueblood
THE ACADEMIC PROCESSION

In today’s academic procession, the gown and hood indicate the degree held by the wearer. The hood is lined with the official color or colors of the college or university conferring the degree. Graduates of certain institutions wear gowns in the color of the university, faced down the front with velvet panels and with velvet crossbars on each sleeve. The velvet may be black or may be the color representing the field in which the degree was conferred.

ROSE-HULMAN BACHELOR’S DEGREE ATTIRE
Rose-Hulman Institute of Technology bachelor’s degree holders or candidates wear a black gown and a black mortarboard with a red and white tassel. Students graduating cum laude, magna cum laude, or summa cum laude wear gold honor cords.

ROSE-HULMAN MASTER’S DEGREE ATTIRE
Master’s degree hoods for Rose-Hulman Institute of Technology are black, lined with rose red satin and white satin chevrons, and edged in golden yellow velvet. With the gown and hood, a black mortarboard and red and white tassel are worn.

CURRENT AND PAST TRUSTEES CHAIR
Black gown with red chevrons bordered in gold piping, and red front panels.

TRUSTEES
Black gown with black chevrons bordered with gold piping.

PRESIDENT
Red gown with black chevron bordered with gold piping. The front panels on the gown include the official school seal. The colors inside the hoods for the trustees and president represent the official school colors of old rose red and white.

ETA KAPPA NU
Scarlet and navy cords signify membership in Eta Kappa Nu, the national electrical engineering honor fraternity.

PI MU EPSILON
Violet, lavender, and gold cords signify membership in Pi Mu Epsilon, the national mathematics honor society.

UPSILON PI EPSILON
Maroon and white cords signify membership in Upsilon Pi Epsilon, the international honor society for the computing and information disciplines.

PRESIDENTIAL MEDALLION
The gold-plated Rose-Hulman Presidential Medallion carries the school seal on one side. The other side portrays a rendering of the Flame of the Millennium sculpture bordered by the phrase “Continuing Our Legacy of Excellence.”
SCHOLARSHIP HONORS

Students graduating with a scholarship index of 3.90 or higher will be graduated summa cum laude; those with a scholarship index between 3.60 and 3.90 will be graduated magna cum laude; and those with a scholarship index between 3.30 and 3.60 will be graduated cum laude. These honors are recognized by the display of gold honor cords at the commencement ceremonies and in appropriate fashion on the diplomas.

*  Cum Laude  †  Honors Anticipated for Summer or Fall Completion candidates
** Magna Cum Laude
*** Summa Cum Laude

Other Program Designations
A  U.S. Army Commission
AF  U.S. Air Force Commission
C  Consulting Engineering Program
G  Technical Translators Program-German
M  Management Studies Certificate
O  Optical Communications Certificate
S  Semiconductor Materials and Devices Certificate

Graduation Date Designations
Special codes indicate students who completed their degree requirements prior to May 25, 2019.

Those designations are:
a  August 25, 2018
n  November 19, 2018
f  February 25, 2019

THE HEMINWAY GOLD MEDAL
This award, established by the late Mrs. Sarah A. Heminway, is awarded to the graduating undergraduate student with the highest grade-point average. In the event of a tie, duplicate awards are given.

THE JOHN T. ROYSE AWARD
The John Tuller Royse Award was inaugurated at Rose-Hulman to honor Mr. Royse in perpetuity for his many years of service to the college as a member of our board. The Royse tradition on the board continues today with John N. Royse an emeritus member.

The award consists of a bronze medal and cash honorarium to be made at commencement each year to the graduating senior who, in the opinion of the faculty and administrative staff, is considered to be our most outstanding graduate based on academic achievement, student leadership, participation in co-curricular activities, and general campus citizenship. The recipient must be nominated by a classmate, a member of the faculty, or administrative staff.

THE MOENCH COMMENDATION
Herman A. Moench graduated from our school in 1929. He served as associate vice president and professor of electrical engineering for more than five decades. Moench helped shape the Rose-Hulman values that we all cherish today, including putting the student first, remaining humble while striving for excellence, and encouraging close student-teacher relationships.

In 1980, the first Moench Commendation was awarded. This is a person who is “not just a good student in the upper half of their class, but also has demonstrated exemplary character in the eyes of their peers and teachers; a person who has been influential in making Rose-Hulman a better place.” The recipient is selected by a vote of faculty and administrative staff.
A BRIEF HISTORY OF ROSE-HULMAN

Rose Polytechnic Institute welcomed an inaugural class of just 25 students in 1883 inside a towering, gothic structure at 13th and Locust streets in Terre Haute. The school was the brainchild of entrepreneur and philanthropist Chauncey Rose, who dreamed of creating an institute of higher learning “for the intellectual and practical education of young men.”

The institute’s heritage of educational excellence dates back to its earliest days, when the Board of Managers and a few other prominent community leaders, coaxed Charles O. Thompson, then-president of the prestigious Worcester Free Institute of Industrial Science, to take the leadership post at Rose. Under his guidance, the academic bar was set very high and has remained that way ever since.

The comradery and campus traditions that have long defined the student experience at Rose also started in its earliest days. By 1920, Rose freshmen were wearing “R” beanies to denote their newbie status and Rosie the Elephant was ensconced as the school’s mascot. Those and other traditions would survive a move to the country in 1922 when the campus transferred to its current location, where even more traditions were born, such as the annual Homecoming bonfire and voluntary (and sometimes involuntary) dips in Speed Lake.

Student enrollment began to accelerate on the new campus and would top 1,000 in 1969 under the leadership of President John Logan. The face of the campus also began to rapidly change, especially in the last quarter of the 20th century, when Cook Stadium, Hadley Hall, Oakley Observatory, Myers Center for Technical Research with Industry, Olin Advanced Learning Center and Olin Hall were all constructed. The institute took another major step in 1995 when the first female students were admitted under the leadership of President Sam Hulbert.

In this century, with growing student diversity, the addition of 1,100 acres of new property south of campus, the Mussallem Union and other significant improvements, the institute continues to build on the strong foundation laid by generations of visionary leaders, dedicated educators and hard-working students. With 20 consecutive years of No. 1 rankings from U.S. News & World Report and other recognitions, the institute, now with an enrollment of more than 2,100 undergraduates and graduate students, remains firmly established among the leading engineering, math, and science colleges anywhere in the world.
**BACHELOR OF SCIENCE**

**BIOLOGY AND BIOMEDICAL ENGINEERING**

**BIOLOGY**

* Melanie Catherine Louise Foreman ................................ Bloomington, Indiana
** Alexander Henri Lacrampe ........................................... Mercer Island, Washington
*** Bryly Madison Shipman ............................................. Jasonville, Indiana

Double Major in BIOLOGY and BIOCHEMISTRY & MOLECULAR BIOLOGY

* Justin Michael Mader ............................................. Indianapolis, Indiana
** Jakob Nikolaus Wentzel ......................................... Pleasant Prairie, Wisconsin

Double Major in BIOLOGY and BIOMATHEMATICS

*** Ariel Margarete Bohner ........................................... Terre Haute, Indiana

**BIOMEDICAL ENGINEERING**

** Ryuji Aoki ............................................................ Long Grove, Illinois
** Jonathan Scott Arnold ........................................... Indianapolis, Indiana
** Megan Nicole Baker ................................................ Fort Collins, Colorado
* Cole Watson Bechtold ............................................. South Whitley, Indiana
*** Lauren Elizabeth Blake ........................................... Wauconda, Illinois
*** Saylor Locke Bower ............................................... Monticello, Illinois
{ John David Briones ................................................. Greencastle, Indiana
* Abigail Anne Bromenschenkel .................................... Mendota, Illinois
Sidrah Din .............................................................. Bloomington, Indiana
*** Marissa Ann Frazee ................................................ New Bremen, Ohio
*** Kayla Nichole Gerken ............................................. Napoleon, Ohio
** Mason Phillip Hancock ............................................ Amelia, Ohio
* Abigail Claire Hawkins ............................................. Troy, Ohio
* Conner James Helbling .............................................. Parker, Colorado
** Maria Irene Kline .................................................. Terre Haute, Indiana
*** Bailey Reid MacInnis ............................................. Superior, Colorado
Cole Delayne McFadden ............................................ Snohomish, Washington
** Tzu Fei Millard ....................................................... Marengo, Illinois
*** Kally Ann Morozin ................................................ Libertyville, Illinois
Madeline Kate Mosscrop ............................................ Lake Oswego, Oregon
Colin Patrick Myers .................................................. Saint Paul, Minnesota
Trevor Alan Nong ...................................................... Rockport, Indiana
Double Major in BIOMEDICAL ENGINEERING
and MECHANICAL ENGINEERING

Miranda Rose Anderson-Kenney ........................................... Hudson, Ohio
Beata Tala Barati ............................................... Lexington, Kentucky
Erin Elizabeth Minervini ................................ ...... Middletown, New Jersey
Samantha Nicole Starr ............................................... Brazil, Indiana

Anticipated Summer or Fall Completion
BIOMEDICAL ENGINEERING

Thomas Wooton Furie ...................................... Downers Grove, Illinois
Hannah Maria Hart ............................................... Champaign, Illinois
Russell Rodriquez ............................................... Hoffman Estates, Illinois

CHEMICAL ENGINEERING

Alexandra Layne Anderson ......................................... Round Rock, Texas
Umang Bhatia ................................................... Bangalore, India
David Michael Borden ............................................... Mason, Ohio
Micah Rushton Carlson .......................................... Greenwood, Indiana
Alexander Joseph Deptula ........................................ Omaha, Nebraska
Lena Moi Duncan .............................................. Indianapolis, Indiana
Elizabeth Ann Edwards ............................................. Indianapolis, Indiana
Chiara Kianni Franklin .......................................... Kansas City, Missouri
Brett Stephen Fulk ................................................ Francisco, Indiana
Thomas Michael Gallery .......................................... Oswego, Illinois
Nickolas Joel Gum ................................................ Kaneohe, Hawaii
Ariana Hernandez ............................................... Hammond, Indiana
John Clarke Holthouse ............................................ Richmond, Indiana
Carter William Hounshell .......................................... Amelia, Ohio
Yingyue Hu ..................................................... Chengdu, Sichuan, China
Nolan Christopher Hughes .................................... Shelbyville, Kentucky
Jonathan Paul Jones ................................................ Haymarket, Virginia
Ross Robert Klauer ............................................... Knoxville, Tennessee
Jessica Diane Kohl .............................................. Indianapolis, Indiana
Hee Won (Richard) Kong .......................................... Seoul, South Korea
Ryan Paul Kuhl .................................................... Fishers, Indiana
** David Herbert Lewis IV .......................................... Terre Haute, Indiana
Jeanne Li ........................................................ Batavia, Illinois
** Lauren Kay London ........................................... Missouri City, Texas
** Caitlyn Elizabeth Meiser ........................................ Eureka, Missouri
Jason Charles Meyer ............................................... Ossian, Indiana
G* Lucas Bernard Mihlbachler ...................................... Hopkinton, Massachusetts
Samuel Edward Mueller ........................................... Valparaiso, Indiana
Ding Nie ................................................ Zhengzhou, Henan, China
Stephen Francis O’Leary ........................................ Venice, Florida
*** Nicholas Andrew Palmer ......................................... Madison, Indiana
Enzo Joseph Passemato ........................................ Fort Wayne, Indiana
*** Jenna Rose Queary ............................................. Midland, Michigan
** Krishna Deepankumar Ramaiya .................................... Naperville, Illinois
Maxwell Knute Richardson ........................................ Indianapolis, Indiana
Michael O’Donnell Rowe ............................................. Cincinnati, Ohio
Bradford Stanley Russell ........................................... Antioch, Illinois
** Audrey Brooking Ruxton ........................................... Cincinnati, Ohio
** Brennan Haley Santaniello ........................................ Kingston, New Hampshire
Joshua Dennis Schnipke ........................................... Kettering, Ohio
Sarah Elizabeth Schwemmin ........................................ Noblesville, Indiana
A Derek Gregory Snyder ............................................ Rockville, Indiana
Tyler David Stevens ............................................... Saint Johns, Florida
* Logan Stork ........................................................ Round Rock, Texas
Samantha Ruth Taylor ............................................... Tampa, Florida
Laura Andrea Tello ................................................ Louisville, Kentucky
** Emerson Douglas Thayer ......................................... Birdseye, Indiana
Paige Caroline Underwood ........................................ Paris, Illinois
Zachary William Versluys .......................................... Sycamore, Illinois
* David Charles Walbring ........................................... New Carlisle, Indiana
Elizabeth Ann Waskul ........................................... Dalton, Georgia
** Zachary Robert Watson ........................................... New Haven, Indiana
** Sydney Jeanne Woodard ........................................... Georgetown, Kentucky
Zachary Eberhardt Zdanavicius ...................................... Crestwood, Illinois

Double Major in CHEMICAL ENGINEERING and CHEMISTRY
*** Anna Katherine Braun ........................................... Union, Kentucky
** Xinyi Li ................................................... Wuhan, Hubei, China
** Zhen Ni ..................................................... Taizhou, Zhejiang China
Brian Jacques Rouillard ........................................... Loveland, Ohio
* Derek Thomas Steele ............................................. Columbus, Indiana

Double Major in CHEMICAL ENGINEERING and ECONOMICS
Samantha Ellen Jacobs ........................................... Orland Park, Illinois

Double Major in CHEMICAL ENGINEERING and MATHEMATICS
*** Leia Christine Nicole Edmondson .................................. Fort Wayne, Indiana
*** Aaron Karcher Kulinowski ........................................ Mechanicsville, Virginia
*** Benjamin John Linxwiler ........................................ Ballwin, Missouri
Anticipated Summer or Fall Completion

CHEMICAL ENGINEERING

Double Major in CHEMICAL ENGINEERING and BIOMEDICAL ENGINEERING
Igor Adalberto Gonzalez ................................................. Panama City, Panama

Double Major in CHEMICAL ENGINEERING and COMPUTER SCIENCE
† Kenneth Richard Kowalski ......................................... Ypsilanti, Michigan

CHEMISTRY AND BIOCHEMISTRY

CHEMISTRY

†‡ John Blake McLemore ............................................. Elberfeld, Indiana

BIOCHEMISTRY

Collin James Diedrich ................................................. Waseca, Minnesota
Madison Grace Muncie ............................................. Cory, Indiana
Hannah Madrean Rowe ............................................. Carmel, Indiana
Taylor Lloyd Secrest ............................................ Greencastle, Indiana

Anticipated Summer or Fall Completion

BIOCHEMISTRY

Katherine Elizabeth Brunner ................................ Batesville, Indiana
Hunter Kaplan Schoenborn ................................ Plymouth, Wisconsin

CIVIL AND ENVIRONMENTAL ENGINEERING

CIVIL ENGINEERING

Charles Christopher Aimone ........................................ Terre Haute, Indiana
Julianne Marie Apple ................................................ Greenfield, Indiana
C Melissa Arbelaez ................................................. Naples, Florida
* Dakota James Bosse ............................................. New Port Richey, Florida
** Ranger ChanLind Caffrey ...................................... Marengo, Indiana
C** Louis Abraham Campbell .................................... Phoenix, Arizona
Erik Matthew Eksten .............................................. Crown Point, Indiana
Alec Mitchell Fair ............................................... Terre Haute, Indiana
C** Eric Michael Fiacable ........................................ Crown Point, Indiana
AF Eli Benjamin Hughes ........................................ Clear Creek, Indiana
Alexandra Diane Hull ............................................. Brentwood, Tennessee
Michael Ryan Kern .............................................. Lafayette, Indiana
* Cal Edwin Laughlin ........................................... Paris, Illinois
* Elizabeth Darlene Magee ............................................ Jasper, Indiana
*** Isabella Kathleen Marzari ....................................... Downers Grove, Illinois
Nicholas Scott McGrail ............................................ Springboro, Ohio
Levi Alexander Michalke .......................................... Thorntown, Indiana
* Douglas Alan Pierce II ........................................... Brazil, Indiana
** Nicholas Dean Rademacher ...................................... Potomac, Illinois
Molly Anne Redmon ............................................ Greensburg, Indiana
* Braden Riley Shaffer ............................................. Houston, Texas
Conner Alan Shipley ............................................ Terre Haute, Indiana
Brian Joseph Thomas ............................................. Saint Louis, Missouri
** Brady Thomas Vaughan ........................................... Indianapolis, Indiana
Grace Lynne Wright ............................................ Yorba Linda, California

Anticipated Summer or Fall Completion
CIVIL ENGINEERING

† Ennis Weller ................................................................. Munster, Indiana

COMPUTER SCIENCE AND SOFTWARE ENGINEERING

COMPUTER SCIENCE

A Nelson Connor Hawks Bade ........................................ Macungie, Pennsylvania
Aaron Joseph Bartee ............................................. Stilesville, Indiana
Brandon Robert Benedict ......................................... Indianapolis, Indiana
Camron Ellis Borders ................................................... Sweeny, Texas
* Jiaqi Fang ....................................................................... Terre Haute, Indiana
* George Wendell Finn ................................................... Glenview, Illinois
David Allen Francis, Jr. ............................................. Clinton, Indiana
*** Jacob Daniel Gathof ............................................... Glen Ellyn, Illinois
Ryan Thomas Greenlee ............................................. Terre Haute, Indiana
Yuhan Guo ........................................................................ Kunming, Yunnan, China
* Charlie Adi Hershberger ............................................ Fremont, California
** Fengyi Huang .............................................................. Indianapolis, Indiana
Vernon Thomas Joyner .............................................. Reston, Virginia
Maxwell Ryan Kelly ..................................................... Downers Grove, Illinois
Addison Nichols Kremer .................................................. Holland, Michigan
Evelyne Ange Maquelin .............................................. Granite Bay, California
*** Collin Timothy Moore .................................................. Franklin, Tennessee
Mitchell Lee Murray, Jr. ............................................... Zionsville, Indiana
** Christopher David Nurrenberg ...................................... Oldenburg, Indiana
Joshua George Palamuttam ........................................... San Jose, California
John Cornelius Peterson ................................................ Palatine, Illinois
Christopher Robert Samp ............................................. Lisle, Illinois
Jenna Samantha Seto ..................................................... Santa Clara, California
Logan Bryce Smith ....................................................... Washington, Indiana
Weimu Song .................................................................... Beijing, China
Zhaoyuan Sun .................................................................. Beijing, China
* Zachary Andrew Taylor .................................................. Louisville, Kentucky
Natasha Augustine Tepley ........................................... Saint Cloud, Minnesota
** Wesley Charles Van Pelt ............................................ Fruitland, Idaho
** Yuankai Wang ................................................... Shanghai, China
** Yilun Wu .................................................. Nanjing, Jiangsu, China
*** Luke Thomas Wukusick ............................................ Batesville, Indiana
Zezhi Xia .................................................. Suzhou, Jiangsu, China
** Xiao Xin .................................................. Suzhou, Jiangsu, China
* Tiancong Zhao ............................................... Changchun, Jilin, China

** Daniel Prakash Neelappa ....................................... San Diego, California

** Two Degrees: COMPUTER SCIENCE and ELECTRICAL ENGINEERING

Triple Major in COMPUTER SCIENCE, MATHEMATICS, and SOFTWARE ENGINEERING
Sheng Dong .................................................. Terre Haute, Indiana

Triple Major in COMPUTER SCIENCE, SOFTWARE ENGINEERING, and MATHEMATICS
** Connor James Boyle .............................................. Columbus, Indiana
*** Michael Kieran Crowell .......................................... Terre Haute, Indiana

** Anne Marie Boxeth ................................................ Saline, Michigan

Double Major in COMPUTER SCIENCE and MATHEMATICS
** Jarrett Scott Alexander ........................................ Hillsdale, Michigan
** Ryan James Bailey .................................................. Terre Haute, Indiana
** Benjamin David Brubaker ........................................... Middleburg, Virginia
*** John Patrick McClary ............................................ West Chester, Ohio
** Trevor Clark Morton ............................................... Issaquah, Washington
** Adit Suvarna .................................................. Saint Charles, Illinois
* Dylan Michael Vener ............................................... Houston, Texas
* Jennifer Rose Wohlpart ........................................... Doylestown, Pennsylvania
* Alexander Zhenyu Wong .......................................... Carmel, Indiana
* Abhimanyu Yadav .................................................. Gurgaon, Haryana, India
*** Zixuan Yang ............................................... Shenzhen, Guangdong, China

Double Major in COMPUTER SCIENCE and SOFTWARE ENGINEERING
** Kiana Riley Caston ............................................... Chicago, Illinois
Zachary Oliver Foote ........................................... Lake Stevens, Washington
Jordan Alexander Hazeldigg ........................................ Connersville, Indiana
** Christopher V Keinsley ........................................... Pekin, Indiana
* Jonah Mark Reel .................................................. Terre Haute, Indiana
** Linde Lee Schaffer ............................................... Inver Grove Heights, Minnesota

** INTERNATIONAL COMPUTER SCIENCE (DUAL BS DEGREE WITH HOCHSCHULE ULM, GERMANY)

David Hierholz .................................................. Stuttgart, Germany
SOFTWARE ENGINEERING

Robert William Byers ......................................................... Loveland, Colorado
Jeremiah Nathaniel Caudell .................................................. Middletown, Ohio
Lance Ly Dinh ................................................................. Houston, Texas
Jacob Edmund Douglass ...................................................... Doylestown, Pennsylvania
Yizhi Feng ................................................................. Guangzhou, Guangdong, China
Eric Thomas Moorman ....................................................... Greensburg, Indiana
Mathew Viktor Palm ............................................................ Schererville, Indiana

Triple Major in SOFTWARE ENGINEERING, MATHEMATICS, and COMPUTER SCIENCE

Walter Karl Panfil ............................................................... Hoffman Estates, Illinois

Double Major in SOFTWARE ENGINEERING and COMPUTER SCIENCE

Alexander James Granowski ................................................. Owatonna, Minnesota
Maya Kaelin Holeman .......................................................... Saint Louis, Missouri
Tucker Fredrick Osman ........................................................ Ballwin, Missouri

Double Major in SOFTWARE ENGINEERING and ELECTRICAL ENGINEERING

Jiaqi Liu ............................................................... Qingdao, Shandong, China

Double Major in SOFTWARE ENGINEERING and MATHEMATICS

Carrie Margaret Utter .......................................................... Noblesville, Indiana

Anticipated Summer or Fall Completion

COMPUTER SCIENCE

Abhimanyu Agarwal .......................................................... Bangkok, Thailand
George Boles ................................................................. Carmel, Indiana
Timothy Luke Cloninger ....................................................... Michigan City, Indiana
Joshua Alan Kuhn ............................................................. Plymouth, Indiana
Benjamin Andrew Oriold ..................................................... Saint Charles, Illinois
Anirudh Balram Singh .......................................................... Mumbai, India
Shijun Yu ................................................................. Shenyang, Liaoning, China

Double Major in COMPUTER SCIENCE and MATHEMATICS

Ishan Saraf ................................................................. Mumbai, India

SOFTWARE ENGINEERING

Michael Anthony Riley .......................................................... Naperville, Illinois
ELECTRICAL AND COMPUTER ENGINEERING

ELECTRICAL ENGINEERING

Paul Azevedo .................................................... Salem, Oregon

Evan Kristopher Bauer ............................................. Celestine, Indiana

Rohit Gopal Chandra ................................................ Forsyth, Illinois

Connor Harlan Crenshaw ........................................ Nashville, Tennessee

Yulin Deng ..................................................... Chongqing, China

Michael Joseph Doyel .............................................. Wichita, Kansas

Leah Ann Droste ............................................... Indianapolis, Indiana

Alec James Fowler ................................................. Griffith, Indiana

Luke Owen Gelfius ............................................ Plainfield, Indiana

Mary Grace Grana ................................................ Palatine, Illinois

Samuel Mathew Grant ........................................ Saint Petersburg, Florida

Anthony John Grueninger ......................................... Mequon, Wisconsin

Jacob William Hafner ........................................ Carlock, Illinois

Caleb Nathaniel Hille ........................................ West Chester, Ohio

Yuan-Ti Ho .................................................... Taipei, Taiwan

Hansel Alexander Hobbie ....................................... Lawrenceburg, Indiana

Matthew John Howlett ........................................ Richland, Washington

Adrian Kam ................................................... Diamond Bar, California

Alexander Nathan Kepchar ....................................... Griffith, Indiana

Nathaniel Evan Lehrer ........................................ Canton, Ohio

Joseph August Lemmond ........................................ Colorado Springs, Colorado

Jinchi Li ........................................................ Shanghai, China

Kuangyi Lu ..................................................... Jiaxing, Zhejiang, China

Charles Arthur Lynch III ........................................ Winter Springs, Florida

Tyler Ray Morris ................................................ Sugar Land, Texas

Ashley Ann Myatt .............................................. Davisburg, Michigan

Michael Emerson Niemann ....................................... Austin, Texas

Ian Mark Pottebaum ............................................. Sierra Vista, Arizona

Michael David Rosier ........................................ Ramsey, Minnesota

Ethan Craig Russell ............................................. Mahomet, Illinois

Marlissa Danielle Sebring ..................................... Bellefontaine, Ohio

Ian Thomas Sheffert ........................................ Park Ridge, Illinois

Riley Alexander Shore .......................................... Long Grove, Illinois

Emily Agnes Smith .............................................. Newburgh, Indiana

Laura Aylin Stahle .............................................. Camarillo, California

Erik Austin Stockwell ........................................ Sugar Land, Texas

Trey Kordell Sykes ................................................ Frisco, Texas

Mila Tan ........................................................ Chengdu, Sichuan, China

John Michael Quinlisk Van Treeck ................................ Northbrook, Illinois

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Double Major in ELECTRICAL ENGINEERING and MATHEMATICS
COMPUTER ENGINEERING

* Devon Gray Adair ................................................. Albion, Indiana
* Chinglin Katarina Chan ........................................ Independence, Kentucky
** Jindong Chen ............................................... Nanjing, Jiangsu, China
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* Luke Alexander Craig ........................................ Bloomington, Indiana
* Logan Nicholas Good ........................................... Goshen, Indiana
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*** Russell James Johnson ........................................ Mackinaw, Illinois
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* Travious Devonte Lewis ....................................... Henderson, Texas
** Andrew Joseph Lund .......................................... Schaumburg, Illinois
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* Elizabeth Angelica Mock ..................................... Springfield, Illinois
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** Adam Joseph Seitz ........................................... Findlay, Ohio
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** Griffin Michael Steffy ....................................... Lebanon, Indiana
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Shinmon Ueno ............................................. Westwood, Massachusetts
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*** Michael James Wilkins ..................................... Geneva, Illinois
* Cooper Wayne Winans ........................................ Cincinnati, Ohio

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** Zachary T Davidsen ........................................... Indianapolis, Indiana
*** Corie Lynn Ewoldt .......................................... Lombard, Illinois
*** Joshua James Heidecker .................................. Newburgh, Indiana
*** Michael Andrew Rusnak .................................. Dublin, California

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* Brian Anthony Burke ........................................ Lewis Center, Ohio

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ELECTRICAL ENGINEERING

Kacper Kulesza ................................................ Wauconda, Illinois
Jacob Micah Pluta ............................................ Indianapolis, Indiana

COMPUTER ENGINEERING

Shaun Michael Davis ........................................ Gurnee, Illinois
Samuel Mehari Goben ....................................... Saint Louis, Missouri
MATHEMATICS

n** John Thomas Lambrecht ................................................. Alma, Michigan
Marina Carlene Lane .......................................................... Markle, Indiana

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* Kennedy Allen Schnieders ................................................ Walkerton, Indiana
** Jacob MacDoolin Soehren .............................................. Edinburgh, Indiana
** Jiaye Su ........................................................................ Shanghai, China
Jiawen Wang ........................................................................... Chengdu, Sichuan, China
Lauren Teresa Wiseman ....................................................... Robinson, Illinois

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* Kevin Patrick Lewis ........................................................... Cary, North Carolina
** Muqing Zheng ................................................................. Ningbo, Zhejiang, China

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BIOMATHEMATICS

Double Major in BIOMATHEMATICS and COMPUTATIONAL SCIENCE

f* William Jacob McClure .................................................. Cordova, Tennessee

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MECHANICAL ENGINEERING

* Omar Mohamed Abdelrahman ........................................... Oak Lawn, Illinois
** Arman Achuthan .............................................................. Chicago, Illinois
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Chester Allen Bonnell ........................................................ Columbus, Ohio
Kyle Robert Braasch .......................................................... Crystal Lake, Illinois

† Cobi Patrick Illian .............................................................. Long Grove, Illinois
Stone Timothy Brogan ........................................... Schererville, Indiana
Allison Kay Brommenschelk ........................................... Mendota, Illinois
David Andrew Burnside .......................................... Northbrook, Illinois
Hannah Grace Burris ........................................... Fishers, Indiana
Hae Rie Jessica Byun ........................................... Bethesda, Maryland
Logan Michael Caldwell ......................................... Fort Wayne, Indiana
Lucas Craig Callahan .............................................. Danville, Indiana
Coleson Craig Carmell ............................................. Columbus, Ohio
John Henry Carone ........................................ Cary, Illinois
Miranda Nicole Chastain ........................................... Clayton, Indiana
Connor Lee Claussen ........................................ Grant Park, Illinois
Daniel Thomas Connolly ........................................ Fort Wayne, Indiana
Trevor Joseph Dallio .............................................. New Lenox, Illinois
Steven Charles Daum ........................................ Cincinatti, Ohio
Derek Patrick Deimel ........................................ Olney, Illinois
Nolan Alexander Dexter-Brown ................................ Yorba Linda, California
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Zachery Lee Dorsett ........................................ Plainfield, Indiana
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Eric Nicholas Emroll ........................................ Naperville, Illinois
David Gardiner Everhart ................................ Broadlands, Virginia
Jacob Matthew Ewing ........................................ Birdsboro, Pennsylvania
Noah Edward Forsythe ........................................ Thousand Oaks, California
Zheng Fu ......................................................... Hangzhou, Zhejiang, China
Shubhankar Mihir Gandhi ........................................ Mumbai, India
Deborah Talitha Gedeon ........................................ Columbus, Indiana
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Lucas Lee Leiner ........................................................... Fishers, Indiana
Benjamin Frederick Lever .............................................. Indianapolis, Indiana
Wyatt Wesley Patton Lewis ............................................. Catlettsburg, Kentucky
AF* Connor Martin Mahoney ............................................. Valdosta, Georgia
Jan Margaret Evangelista Mangawang ................................ Santa Clara, California
** William Roy McGowen ............................................... La Grange Highlands, Illinois
* Allison Eileen McLaughlin ........................................... New Carlisle, Indiana
Patrick Allen Mellor ..................................................... Terre Haute, Indiana
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A* Brennon Thomas Miller ............................................... Conneaut Lake, Pennsylvania
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A** Matthew Alexander Munoz ......................................... Brazil, Indiana
n Patrick John Neylon .................................................... Oak Lawn, Illinois
AF* Michael Vincent Pansera ......................................... Yorkville, Illinois
+ Anthony Lee Pipkin .................................................... Indianapolis, Indiana
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f Dakota Jassmin Rostron ............................................... Patoka, Indiana
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* Jeniffer Abril Saucedo ................................................ Austin, Texas
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** Sean Gregory Sullivan ............................................... Indianapolis, Indiana
Austin Cole Supp ......................................................... Miamisburg, Ohio
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* Turner Paul Tarrillion ................................................ San Antonio, Texas
** Patrick James Thomas ................................................ Athens, Ohio
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Zsolt Benjamin Truckai .................................................. Saratoga, California
** Michael Ryan Turski ................................................ Rochester Hills, Michigan
Phillip Keith Tyler ....................................................... Terre Haute, Indiana
** Nicholas Andrew Van Hoy ......................................... Chapel Hill, North Carolina
Markie Marie Vaughn .............................................. Sullivan, Indiana
Scott Brian Waddle ............................................... Aptos, California
* Riley Sherod Waite ............................................. Terre Haute, Indiana
Benjamin Thomas Walker ........................................ Springboro, Ohio
* Nicholas Garrett Wallien ..................................... Shelbyville, Indiana
** Zihan Wan ...................................................... Jiaxing, Zhejiang, China
** Hao Wang ..................................................... Ningbo, Zhejiang, China
* Tianhe Wang ................................................... Beijing, China
AF Linnell Georgia Williams .................................... Indianapolis, Indiana
Aaron Andrew Wilson .......................................... Jacksonville, Florida
** Brandon Joseph Wohlfarth ................................... Tomball, Texas
** Joshua Dugan Wright ......................................... Dayton, Ohio
* Kevin Thomas Wuest ........................................ Fort Wayne, Indiana
* Brian Cecil Wyatt, Jr. ........................................ Indianapolis, Indiana
A* James Madison Young ......................................... Indianapolis, Indiana
Sawyer Allen Young ........................................... Hayward, Wisconsin
A* Joseph James Zemen ......................................... Manhattan, Illinois
f * Yifan Zheng ................................................ Tangshan, Hebei, China

Double Major in MECHANICAL ENGINEERING and BIOMEDICAL ENGINEERING
Sean Patrick Casey ........................................... McCordsville, Indiana
* Arisa Alexus Kouchi ........................................ Rancho Palos Verdes, California

Double Major in MECHANICAL ENGINEERING and COMPUTATIONAL SCIENCE
Nicholas Giuliano Harrelson ................................... Wichita, Kansas

Double Major in MECHANICAL ENGINEERING and COMPUTER SCIENCE
* Timothy Luke Wynia ......................................... Columbus, Ohio

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Carl Fredrik Gustav Se-Jong P Tepley ........................ Great Falls, Virginia

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* Shannon Kerry Cushing .................................... Holmdel, New Jersey
** Emily Anne Dowden .................................. Bartlett, Illinois

Anticipated Summer or Fall Completion
MECHANICAL ENGINEERING

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Two Degrees: MECHANICAL ENGINEERING and COMPUTER SCIENCE 
John Taylor McClure ...................................... North Barrington, Illinois 

PHYSICS, OPTICAL ENGINEERING, AND ENGINEERING PHYSICS 

PHYSICS 
** Weichang Lin ........................................... Shenzhen, Guangdong, China 

Two Degrees: PHYSICS and ELECTRICAL ENGINEERING 
Zihang Xu ...................................................... Shanghai, China 

Triple Major in PHYSICS, MATHEMATICS, and COMPUTATIONAL SCIENCE 
* Brandon Martial Keltz ........................................... Paris, Illinois 

Double Major in PHYSICS and MATHEMATICS 
** Zibo Wang ................................................... Ningbo, Zhejiang, China 

Double Major in PHYSICS and OPTICAL ENGINEERING 
Zachary Adam Masner ........................................... Coatesville, Indiana 

OPTICAL ENGINEERING 
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Jacob J Murray ...................................................... Wilmington, Ohio 
S Sydney Evelyn Wilson ............................................ Yorktown, Indiana 

ENGINEERING PHYSICS 
S*** Samuel Thomas Wilkins Myren .................................. Terre Haute, Indiana 
S** Zachary Ryan Spears ........................................... Indianapolis, Indiana 
S* Simon Peter Tsaoussis ........................................... Miami, Florida 

Anticipated Summer or Fall Completion 
ENGINEERING PHYSICS 
Emily Ann Ray ..................................................... Dyer, Indiana 

22
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MASTER OF CHEMICAL ENGINEERING

Paige Victoria Bateman ........................................... Bridgeton, Missouri
Jason Thomas Marvin ............................................. Oak Forest, Illinois
Daniel Ryan Moore ............................................ Washington, Indiana

MASTER OF CIVIL ENGINEERING

Alexander Lutzow ............................................... Petaluma, California
Andrew Bryce Snyder ........................................... South Bend, Indiana

MASTER OF ELECTRICAL AND COMPUTER ENGINEERING

Nathaniel Evan Lehrer ................................................ Canton, Ohio

MASTER OF ENGINEERING MANAGEMENT

Yixi Fan .................................................. Chengdu, Sichuan, China
Albert James Okwudili Udom ................................... San Francisco, California
Wesley Donald Umbower ......................................... Valparaiso, Indiana
Pengzi Zhou .................................................... Shanghai, China

MASTER OF SCIENCE

BIOMEDICAL ENGINEERING

Jessa Bryann Ward ............................................ Leavenworth, Indiana
An Investigation of the Biomechanics of Kinesiology Tape
Thesis Advisor: Professor Renee Rogge

CHEMICAL ENGINEERING

Ryan Michael Beere ............................................... Demotte, Indiana
Development and Analysis of a Methanol-to-Gasoline Reaction Setup
for Use in an Undergraduate Setting
Thesis Advisor: Professor Gregory Neumann
a Jennifer Ann Mobley ................................................ Howe, Indiana
Optimization of the Production of Long ChainDicarboxylic Acids from Distillers Corn Oil
Using Candida viswanathii
Thesis Advisor: Professor Irene Reizman

n John Christopher Overton .......................................... Orland, California
Decolorization of Reactive Blue 4 Dye by Fenton Process
Using Heterogeneous Fe/SBA-15 Catalyst
Thesis Advisor: Professor Gregory Neumann

a Rachel Kimberly Weber ............................................ Fenton, Michigan
Fabrication and Characterization of
a Magnetohydrodynamic Micropump from PDMS
Thesis Advisor: Professor Daniel Anastasio

f Xintong Xia .................................................... Chongqing, China
Application of a Light-Switchable System
in Redirecting Escherichia coli Metabolic Fluxes
Thesis Advisor: Professor Irene Reizman

**ELECTRICAL ENGINEERING**

n Jiayu Guo .............................................. Qingdao, Shandong, China
Accuracy Improvement of Pedestrian Trajectory Prediction
by Extended Kalman Filter and Pedestrian Behavior Classification
Thesis Advisor: Professor JianJian Song

**ENGINEERING MANAGEMENT**

David Alexander Bruce Hopkins .................................. Terre Haute, Indiana
Measuring Effectiveness of a Virtual Team in the Automotive Workplace
Project Advisor: Professor Thomas James

Randall Martin Languis ................................................ Powell, Ohio
Production Rate Optimization: A DMAIC Approach
Project Advisor: Professor Craig Downing

Kelly Elizabeth McKenna .......................................... Crestwood, Kentucky
Improving the Order Management System of a Small Manufacturing Plant
Project Advisor: Professor Diane Evans

f Rajalakshmi Somasundaram .................................. Sattur, Tamil Nadu, India
This is the Last Straw: Reducing Plastic Straw Usage on a College Campus
Project Advisor: Professor Diane Evans

Sangavi Sundaramoorthy ............................................ Chennai, Tamil Nadu, India
Effects of Short and Frequent Workplace Physical Activity Breaks
on Work Performance
Project Advisor: Professor Eva Andrijcic
Bilguun Tsogtbaatar ............................................ Brownsburg, Indiana
A Sustainable Sourcing Strategy in an Automotive Supply Chain
Project Advisor: Professor Craig Downing

Jacob Tyler Working ................................................. Macy, Indiana
Investigation in College Student Housing: On-Campus Retention
Project Advisor: Professor Eva Andrijcic

MECHANICAL ENGINEERING

Ethan Wayne Cating .............................................. Fortville, Indiana
Design of Vibration Class Laboratory Assignments:
Focusing on Broader Application
Thesis Advisor: Professor Daniel Kawano

Zachary Joseph Dougherty ................................. Barboursville, West Virginia
Foot-Controlled Supernumerary Robotic Arm:
Control Methods and Human Abilities
Thesis Advisor: Professor Ryder Winck

Joseph Otto Hubach ................................................... Avon, Ohio
Solar Tracking Using a Parallel Manipulator Mechanism
to Achieve Two-Axis Position Tracking
Thesis Advisor: Professor Richard Stamper

Cheng Xu ................................................ Ningbo, Zhejiang, China
Automated Microstructure Analysis of Large Regions
Thesis Advisor: Professor Patrick Cantwell

OPTICAL ENGINEERING

James Arthur Dilts ................................................. Billings, Montana
Design, Fabrication, and Characterization of Multilayer Hyperbolic Metamaterials
Thesis Advisor: Professor Hossein Alisafae

Ehsan Ordouie ....................................................... Karaj, Iran
Design, Fabrication, and Characterization of
a One-Dimensional Single Material Polarizing Photonic Crystal
Thesis Advisor: Professor Azad Siahmakoun
OPTICAL ENGINEERING
(DUAL MS DEGREE WITH SEOUL TECH, KOREA)

Gwang Ho Choi ............................................. Pohang-si, South Korea
Modeling and Characterization of a Ring-Resonator
Based Silicon Photonic Sensor on SOI
Thesis Advisor: Professor Azad Siahmakoun

Tae Won Huh ................................................ Anyang, South Korea
Hybrid Optical Integrator Based on Silicon-on-Insulator Platform
Thesis Advisor: Professor Azad Siahmakoun

JeongRok Kim ............................................. Changwon, South Korea
Coupling Light into Silicon Waveguide
Using Surface Plasmon Polaritons
Thesis Advisor: Professor Azad Siahmakoun

SYSTEMS ENGINEERING AND MANAGEMENT
INTERNATIONAL PROGRAM

Valeria Sophia Junge ....................................... Herbrechtingen, Germany
Development of a Company-Specific Model-Based
Systems Engineering Method Encompassing Functional Safety
Thesis Advisor: Professor Dan Moore

Fabian Knupfer ................................................ Biberach, Germany
Sensors in Green Forage Harvest-Yield Estimation
for Mowers with Roller Conditioner via Volume Flow Measurement
Thesis Advisor: Professor Dan Moore

Patrick Rippl ................................................. Burgebrach, Germany
Analysis of Detector Signals and Optimization
of the Image Creation Process of a Scanning Electron Microscope
Thesis Advisor: Professor Dan Moore
Rose-Hulman Institute of Technology
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