T H E  G E O R G E  W A S H I N G T O N  U N I V E R S I T Y

Celebration

2024 GRADUATION CELEBRATION
THE SEVENTEENTH OF MAY, TWO THOUSAND TWENTY FOUR

School of Engineering & Applied Science
THE GEORGE WASHINGTON UNIVERSITY
2024 GRADUATION CELEBRATION
MAY 17, 2024 | 7:00 P.M. | CHARLES E. SMITH CENTER
SCHOOL OF ENGINEERING AND APPLIED SCIENCE
2024 GRADUATION CEREMONY

Ceremony Opening
MUSICAL PRELUDE ......................................................................................... Corcoran Brass

The Academic Procession
THE NATIONAL ANTHEM .............................................................................. Marilyn Shazier Shields
Executive Associate, Office of the Dean

ANNOUNCEMENT OF THE COMMENCEMENT ........................................ Jonathan P. Deason, School Marshal

WELCOMING REMARKS AND GRADUATION ADDRESS ....................... Dean John Lach

Student Speaker Remarks ............................................................................. Tyler J. Wyka, B.S., Mechanical Engineering

Guest Speaker ................................................................................................. W. Scott Amey, M.S. ’75

Recognition of Graduates ............................................................................... Dean John Lach and Department Chairs

BIOMEDICAL ENGINEERING ....................................................................... Dr. Vesna Zderic

CIVIL AND ENVIRONMENTAL ENGINEERING ......................................... Dr. Majid T. Manzari

COMPUTER SCIENCE ..................................................................................... Dr. Rebecca Hwa

ENGINEERING MANAGEMENT AND SYSTEMS ENGINEERING ............ Dr. Ekundayo Shittu

ELECTRICAL AND COMPUTER ENGINEERING ....................................... Dr. Tarek A. El-Ghazawi

MECHANICAL AND AEROSPACE ENGINEERING ...................................... Dr. Michael W. Plesniak

SEAS ONLINE PROGRAMS ........................................................................... Dr. Shahram Sarkani, Director

Ceremony Closing
RECESSIONAL ............................................................................................... Corcoran Brass

Please remain standing as the academic procession leaves the auditorium.
Dear Graduate:

On behalf of the faculty and staff of the George Washington University’s School of Engineering and Applied Science, I congratulate you on your well-earned academic achievement.

I hope you are as proud of your accomplishment as we—your professors, advisors, and mentors—are. We have watched you learn, grow, broaden your perspectives, and deepen your understanding of engineering and computer science and of the critical roles they play in our increasingly technology-driven world. It took hard work and perseverance for you to be here today, and I hope you look back on your time at GW Engineering with fondness and appreciation.

As you look forward to your next challenge, I hope you carry with you what you have learned during your time here. First and foremost, you have studied your discipline in technical depth and acquired an understanding of the ethical practice and societal context of engineering and computer science. You have learned to think creatively about complex topics and to work collaboratively with people across disciplines and from various backgrounds. Your experiences inside and outside the classroom have prepared you to become a valuable member—and leader—of diverse teams solving society’s grand challenges.

But the preparation you have acquired here is just the beginning.

I challenge you to go forth from today as a life-long learner, constantly collecting new knowledge, skills, and perspectives to better serve humankind in our ever-changing world. The recent pandemic has reminded us of the importance of adaptability and resilience and of the need to be proactive in preparing for any challenges that may come our way. As engineers and computer scientists, you have special capabilities and responsibilities, and your commitment to continued growth and adaptability will help you make the world a better and more resilient and equitable place for all.

Whether you are now going on to your first full-time job, continuing your career, heading to graduate or professional school, or otherwise following your life path, please stay in touch with us and with your fellow alumni. Remember that the GW Engineering community extends far beyond campus and will always welcome you. With a worldwide network of alumni and friends, you will find opportunities to connect with, support, and be supported by fellow GW graduates wherever you venture. And individually and together, you will Raise High!

I wish you all the best,

John Lach
Dean, School of Engineering and Applied Science
W. Scott Amey, M.S. ’75

In 2008, Mr. Amey led a consortium of former federal government contractor executives to acquire Amyx, Inc. During his tenure leading the company until it was sold in January 2023, he held the position of Chairman and principal owner and was deeply involved in business planning, budget development, and oversight of major initiatives. Mr. Amey chaired the quarterly Board of Directors meetings and the annual shareholders meeting, ensuring strategic alignment, and effective governance.

Mr. Amey significantly expanded the company’s annual revenue (from $9M to $128M annually), employees (from 46 to 635), customer base (from 1 federal agency to 15), and service offerings. His leadership was instrumental in fostering a culture of exceptional customer service, employee recognition, and community engagement. Amyx has also been awarded the “Top Places To Work” regional award by The Washington Post five of the last six years. He continues to serve as an Executive Advisor to Amyx’s CEO.

Prior to his tenure at Amyx, Mr. Amey made significant contributions as the founder and Chief Operating Officer of RS Information Systems, Inc. Under his stewardship, RSIS emerged as one of the nation’s leading federal government IT and engineering services providers, boasting over 1,700 employees and $340 million in annual revenue. He oversaw a portfolio of over 50 Federal contracts across various agencies, including federal civilian agencies such as NASA, Department of Energy, Department of Transportation, National Weather Service, Social Security Administration, Department of Labor, and Environmental Protection Agency, as well as Department of Defense Agencies such as Wright-Patterson AFB, Schreiver AFB, Maxwell AFB, Army Research Laboratory, Naval Research Laboratory, and Defense Research Advanced Projects Agency. Mr. Amey’s expertise extended to quality management systems, leading the company’s ISO 9001-2000 and SEI/CMM certifications, and winning NASA’s coveted George M. Lowe Quality Award.

Throughout his distinguished career, Mr. Amey has held positions at esteemed organizations such as Information Systems and Networks Corporation, Metters Industries, United Technologies, the Johns Hopkins University Applied Physics Laboratory, Singer Link Simulation Systems, and Vitro Laboratories.

Mr. Amey earned his master’s in Computer Science from the George Washington University School of Engineering and Applied Science, following his undergraduate studies at the Catholic University in DC. As an emeritus member of the GW Board of Trustees and a current member of the GW Engineering National Advisory Council, Mr. Amey has dedicated decades in service to the George Washington University community.

A champion of connecting students to best-of-class career services and counseling, in 2007, Mr. Amey was the recipient of the GW Alumni Service Award for founding and establishing the GW Engineering Amey Career Center. In 2008, he was once again recognized by GW as a recipient of the 2008 Distinguished Alumni Achievement Award, the highest award given by the George Washington University to a volunteer. In 2009, Mr. Amey was inducted into the GW Engineering Hall of Fame.
## Student Awards

The Abdelfattah Abdalla Prize ................................................................. Kate Hakushka
SEAS Dean’s Alumni Prize ............................................................... Tyler Wyka
The Norman B. Ames Award ............................................................ Gabriella Barone-Graybill, Zachary Esposito, Annette Jimenez
The William and Louise Corcoran Service Award ......................... Kenise Morris, Ria Christina Vargis
The George Ellowitz Prize ................................................................. Jade Balansag
The Susan Shin Memorial Award ....................................................... Emma Todd
The Shelly and Steve Heller Award .................................................... Isabella Dayrit
The Tau Beta Pi Outstanding Sophomore Award .............................. Ciaran Krabak

### The SEAS Senior Design Awards

<table>
<thead>
<tr>
<th>Field</th>
<th>Winners</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIOMEDICAL ENGINEERING</strong></td>
<td>Gabriella Barone-Graybill, Jessica Dilone, Lars Hansen, Rani Patel</td>
</tr>
<tr>
<td><strong>CIVIL &amp; ENVIRONMENTAL ENGINEERING</strong></td>
<td>Hasan Alnaqeeb, Kaj Boeri, Annalise DePaull, Kaitlyn Noether</td>
</tr>
<tr>
<td><strong>COMPUTER SCIENCE (ARNOLD C. MELTZER AWARD)</strong></td>
<td>Chang (Justin) Park, Quan (Leo) Phan, Karl Simon</td>
</tr>
<tr>
<td><strong>ELECTRICAL &amp; COMPUTER ENGINEERING (DERRILL ROHLFS AWARD)</strong></td>
<td>Liam Cochrane, Mahir Khan, Luka Martinovic, Jonathan Pang</td>
</tr>
<tr>
<td><strong>ENGINEERING MANAGEMENT &amp; SYSTEMS ENGINEERING</strong></td>
<td>Gujri Ahluwalia, James Ferguson, Daniel Fisher, Esha Patel</td>
</tr>
<tr>
<td><strong>MECHANICAL &amp; AEROSPACE ENGINEERING</strong></td>
<td>Tala Hawa, Matthew Laquerre, Jack Palaian, Shawn Satterwhite</td>
</tr>
</tbody>
</table>

The Pelton Award for Outstanding Senior Project ........................ Anika Haski, Patrick Jair, Catherine Ruffino, Brooke Wilson
The Martin Mahler Prize ................................................................ Zoe Warren
The Neilom Prize for Social Impact ................................................. Rigel Brown, Ruiz Kamaruszaman
The Gary and Judy Bard Entrepreneurial Engineering Endowment Award ..................................................................... Evan J. Fries, Sidra M. Hussain, Sarah M. Jagerde, Colin M. Ranck

The Benjamin C. Cruickshanks Award

<table>
<thead>
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<th>Field</th>
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<tr>
<td><strong>BIOMEDICAL ENGINEERING</strong></td>
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<td>Julian Abeledo</td>
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<td><strong>COMPUTER ENGINEERING</strong></td>
<td>Alicia Ha</td>
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<td><strong>COMPUTER SCIENCE, B.S.</strong></td>
<td>Matthew Gouvin</td>
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<tr>
<td><strong>ELECTRICAL ENGINEERING</strong></td>
<td>Bridget Orr</td>
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<tr>
<td><strong>MECHANICAL ENGINEERING</strong></td>
<td>Gerald Fattah</td>
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<tr>
<td><strong>SYSTEMS ENGINEERING</strong></td>
<td>James Ferguson</td>
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</table>

The Philip Kaplan Award ................................................................ Bridget Orr
The Alfred Martin Freudenthal Prize ........................................ Matthew Gouvin
The Distinguished Scholar ........................................................ James Ferguson
The Abdelfattah Abdalla Prize
Established as a memorial by the many friends and colleagues of Professor Abdalla. For scholarship and service by a biomedical engineering, electrical engineering, or computer science junior or senior for service to Eta Kappa Nu, IEEE, Tau Beta Pi, or the department.

The SEAS Dean’s Alumni Prize
For a student demonstrating outstanding service, commitment, and scholarship in the School of Engineering and Applied Science.

The Norman B. Ames Award
Established by friends of Professor Ames in memory of Carolyn E. Schmidt (a relative) who died July 20, 1978. Awarded to a senior for significant contributions to the students, the School of Engineering and Applied Science, and the George Washington University.

The Gary and Judy Bard Entrepreneurial Engineering Endowment Award
Recognizes the ability and initiative of a young entrepreneur in the E-commerce curriculum in the computer science department, and serves as an incubation model for electronic business. Established in 2003.

The William and Louise Corcoran Service Award
Established to commemorate the founders of the School of Engineering and Applied Science, this award is given to faculty, staff, and students who have contributed to the intellectual and social life of the School.

The Benjamin C. Cruickshanks Award
Established in 1991 by the Engineer Alumni Association as a memorial to Professor Cruickshanks, who was associated with GW for more than 40 years as a teacher, writer, coach of the GW Baseball team, and a strong supporter of student activities. Awarded to a graduating senior with the highest academic standing in each undergraduate major.

The Distinguished Scholar
For academic achievement and distinctive school contributions by a senior.

The George Ellowitz Prize
Established by Robert L. Morris in honor of George Ellowitz. Awarded to a junior or graduating senior for demonstrated excellence and interest in the humanities or social sciences.

The Alfred Martin Freudenthal Prize
Established as a memorial to Professor Freudenthal by his wife, friends, students, and colleagues for his outstanding contributions to engineering education. Awarded to the graduating senior with the highest grade point average from the previous semester.

The Shelly and Steve Heller Award
Established in 1999 by Drs. Rachelle and Steve Heller. It is presented to the sophomore female with the highest grade point average and a computer science degree emphasis.

The Philip Kaplan Award
Established in memory of Philip Kaplan by his family. Awarded to the graduating senior majoring in electrical engineering with the highest grade point average.

The Martin Mahler Prize
Created in 1953 by a gift of Martin Mahler for an upper class or graduate student who submits the best reports on tests in the materials laboratories class, with preference given to prestressed concrete tests.

The Neilom Prize for Social Impact
Established in 2020 and named for the original benefactors. This award is given to a junior or senior with a clear and articulated interest in the application of engineering to a particular area of social change.

The Pelton Award for Outstanding Senior Project
Named in honor of the Pelton family and Dr. Joseph N. Pelton, former professor at the School of Engineering and Applied Science. This annual competitive prize for best senior design project continues the Pelton family tradition of innovation and patented inventions. The award encourages senior projects that are beneficial to the environment and are patentable.

The Susan Shin Memorial Award
Established in 2005 by friends of Susan Shin to honor her memory. This award is given to a junior who best exemplifies caring and service to fellow SEAS students.

The Senior Design Awards
Awarded for superior achievement in engineering design in each undergraduate major.

The Tau Beta Pi Outstanding Sophomore Award
Awarded by the GW Chapter of Tau Beta Pi to the student who ranks first at the end of the sophomore year.
### DEPARTMENT OF BIOMEDICAL ENGINEERING

#### BACHELOR OF SCIENCE | BIOMEDICAL ENGINEERING

<table>
<thead>
<tr>
<th>Candidate Details</th>
<th>Degree Candidate</th>
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<tr>
<td>Gabriella Rose Barone-Graybill</td>
<td>Anika Morwyn Haski</td>
<td>Zein Eddin Ismail</td>
<td>Salvador Luis Alberto Parot Leon</td>
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<td>Anastasia Consuelo Brickner</td>
<td>Joshua Iwu</td>
<td>Patrick Houman Jair</td>
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<td>Rigel Hunter Brown</td>
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<td>Salah Fouad Masri</td>
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<td>Robert Curran</td>
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<td>Margaret Grace McKenzie</td>
<td>Hisham Shawwa</td>
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<td>Lars Redford Hansen</td>
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#### MASTER OF SCIENCE | BIOMEDICAL ENGINEERING

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<td>Yahya Zakari Aliyu</td>
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<td>Zaina Alshammari</td>
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<td>Harvinder S. Shergill</td>
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<td>Anahis Hripsime Davidian</td>
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<td>Alessio F. Denny</td>
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#### DOCTOR OF PHILOSOPHY | BIOMEDICAL ENGINEERING

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<tr>
<td>Zhiyuan Chen</td>
<td>Micah K. Madrid</td>
<td>Mariia Sidulova</td>
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<td>Tara Diba</td>
<td>David Lee McLeod</td>
<td>Sheng Wang</td>
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<td>John K. Hill</td>
<td>Kenise Monet’ Morris</td>
<td>Baijun Xie</td>
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<tr>
<td>Regina Komal Kottana</td>
<td>Brian Schnoor</td>
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</table>
DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

BACHELOR OF SCIENCE | CIVIL ENGINEERING

Julian Emilio Krsticevic Abeledo  Carlos Henrique Fernandez  Gabriela Esther Parra Delgado
Hasan Zaid Alnaqeeb  Jacob Louis Hatcher  Abdurrahman Bin Tauqeer
Kaj Christian Boeri  Terrell J. Henderson  Amy Elizabeth Wagner
Stephanie N. Carapia  Davis William Hundt  Zoe N. Warren
Annalise Elizabeth DePaull  Kaitlyn Elizabeth Noether
Anna Margaret Fabian  Lillian A. Oathout

MASTER OF SCIENCE | CIVIL AND ENVIRONMENTAL ENGINEERING

Khalfan Ali Saeed Marran Aldhaheri  Jose Bento V. Furtado  Bhagyashree Panda
Salman Mohammad Aldhobaib  Christopher Francis Lemkan  Juan Manuel Salazar Moreno
Kathryn E. Burkey  Mahtab Miremadi
George Commissiong  Samuel O. Omefe

DOCTOR OF PHILOSOPHY | CIVIL AND ENVIRONMENTAL ENGINEERING

Lingchen Kong  Mojolaoluwa Ayobami D. Ladipo-Obasa  Zhe Zhou

DEPARTMENT OF COMPUTER SCIENCE

BACHELOR OF ARTS | COMPUTER SCIENCE

Opeyemi Babalola  Maria Guadalupe Flora-Zamudio  Georgiana Julia Mois
Oury Barry  Christian Garcia  Ralph Paul
Lindsey Grace Cicero  Alvin Isaac  Noah Ross
Kiana Alexandria Ocampo Codilla  Cole Knie  Shreeyam Parwati Sharda
Madelyne S. Cruz  Ivy Le  Sarah Salah Sheikhnureldin

BACHELOR OF SCIENCE | COMPUTER SCIENCE

Dania Mohamed Abdalla  Claes Helge Gagnon Boillot  Matthew Ronald Gouvin
Emmanuela Anna Alaimo  Ryah Marie Carpenter  Kate Rose Halushka
Marlena Terese Alvino  Benjamin Colin Chapman  Brandon Thane Harvey
Saif Tariq Mohamed Saif Alzaabi  Ethan Charles Cohen  Sidra Mujtaba Hussain
Owen George Andreassen  Kevin Robert Conlon  Sarah Mahesha Jagerdeo
Jiyan Mecit Ayhan  Selman Eris  Clare Elise Jenney
Adil Mohammad Bajwa  Evan John Fries  Anugna Kasireddy
Kayla Nicole Berne  Maria Joy Galluzzo  Tanim Anan Khan
BACHELOR OF SCIENCE  |  COMPUTER SCIENCE  

Pravin Khanal
Samantha Nicole Kusner
Sheung Chit Li
Josephina Santola Libbon
Elaine Ly
Daniel Thomas Mai
Dakharai Xavier Murray
Jonathan D. Nguyen
Chang Min Park
Quan Minh Phan
Adham Popal
Viraj Prakash
Colin Michael Ranck
Thomas John Riffe
Joshua R. Rizika
Jayith Nathan Samaraweera
Adnan Shaker
Abel Alvin Shakespeare
Karl Philip Simon
Surya Teja Talasila
Damien Alexander Villegas
Yuyang Wang
Steven Haeun Yoon

MASTER OF SCIENCE  |  COMPUTER SCIENCE

Musadig Aliyev
Abdulaziz A. Alyahya
Sachin Prassana Anbarasan
Alloua Yannhervee Antoinette Animan
Ali Asgarov
Arham Ashfaq
Manoj Ashoka Banakar
Laxmi Yogita Attaluri
Ningshuo Bai
Sokrat Bashirov
Ashish Beerelli
Maxwell Brenner
Yiran Cai
Alper E. Cetinkaya
Harshita Chadha
Dandan Chen
Zhaoyang Chen
Sai Revanth Chennupati
Sai Bhaskara Lakshmi Satwikha Chilukuri
Akhil Dara
Maryam Darei
Pranit P. Darekar
Shruti Hasmukh Dedhia
Venkata Naga Dinesh Kumar Desai
Qichang Dong
Nikhil Dugyala
Arzu Fatullayeva
Zhiming Feng
Tharun Ganapathi Raman
Sri Sai Pranavi Ganti
Sobha Tejaswi Garapati
Ryan Gross
Li Guan
Farid Gulyev
Reeya Ashok Gupta
Aytan Gurbanova
Lauren Jeehee Hahn
Rishab A. Haltore
Fidan Hasanugileyeva
Tao Hong
Nural Imanov
Jett Sheridan Jacobs
Shubham R. Jadhav
Syam Sai Jonnalagadda
Prithviraj Kalaiselvan
Satyam Kalra
Anil Kumar Kamani
Ketan C. Kapse
Dilrose Karakattil
Sahitya Naga Krishna Lekha Karri
Boomika Karuppaiah
Hemanth Kumar Reddy Kasireddy
Matthew L. Key
Ada B. Kılıç
Sravya Kuchipudi
Aditya Kumar
Karthik Kumar
Sreeker Kuragayala
Lijadis Genet Ayew
Yue Lei
Chengjing Li
Desheh Li
Weigeng Li
Yuling Li
Bugao Liang
Rui Liu
Sitong Liu
Jiangtao Lu
Haoran Lyu
Eljan Mahammadli
Gunay Maharramli
Dheeraj Makineedi
Apoorva Mamindla
Asiman Mammadzada
Shreya Chandana Manda
Harshini Mandalapu
Benjamin Patrick Marasco
Tural Mehtiyev
Nahom S. Melaku
Sravya Sai Suma Sri Mogallapu
Abdul Irfan Mohammed
Eric C. Moy
Yusif Mukhtarov
Elshan Naghizade
Pramukh Nagol
Hrutik Jitendra Naik
Yaznitha Sai Nalajala
Sumanth Nandeti
Quang Ngoc Huong Nguyen
Aarti Pan
Satish Sarma Palepu
Dhruti B. Pandya
Sai Abhisheer Pappusetty
Ajinkya Patil
Sriya Sameera Ponugoti
Weiwei Qin
Amish Raj
Jahnavi Ramagiri
Sai Tejasvi Ramsagar
Dinesh Reddy Reddem
Pavan M. Reddy
Lukas M. Ross
Amrit Singh Sardar
Darshilkumar Rajeshbhai Shah
Dev B. Shah
Shivam Shah
Feroz Shaik
Niranchana Shiju
Anar Shikhaliyev
Shamil Shukurov
Aditya Singh
Rishab Singh
Akash Reddy Singi Reddy
Rutvik Dhansukhlal Solanki
Aditya Somani
Thomas R. Stanton
Kamal Subedi
Chuwen Sun
Mingze Sun
Xuan Sun
Naga Sai Bhavya Tadikonda
Toghrul Tahirov
Gnana Charitha Talapaneni
Gayathri Talasila
Harshini Sri Satya Lakshmi Padma Tammineedi
Ashish Telukunta
Manisha Therupalli
Rashi Tiwary
Maryam Toushehjoo Langroudi
Praveen Chowdary Vadde
Phanindra Vantipalli
Sowmya Vara
Nandita Venkatesh
Kalyani Vinayagam Sivasundari
Tushara Vunnava
Xinyu Wen
Zihaow Wen
Mengqi Wu
Zhengyu Xie
Zhihao Xu
Sai Neelkanth Chary Yarraj
Bite Ye
Yiqing Yu
Hengchuan Zhang
Yikai Zhang
Yuxuan Zhang
Maoyuan Zhou
Neng Zhou
Yifei Zhou
Gaofeng Zhu
Hongrui Zhu
Arwa Mohammed A Alsahdi
Yu-Sen Chiu
Akhil Reddy Duvvuru
Voga Firandy
Alhassan K. Halawani
Shirish Anilkumar Inamdar
Lance R. Jefferson
Della B. Jones
Chien-Huan Kao
Rutuja Yashawant Kapse
Elena Mary Elizabeth Korkes
Dasom Lee
Ethan A. Leider
Jasmy Elzha Mathew
Haritha Thirumaran
Rajesh Reddy Thiyyagura
Ranveer Uppal
Thinh Hung Dang
Yan Meng
Zeyu Zhang
MASTER OF SCIENCE | CYBERSECURITY IN COMPUTER SCIENCE

DOCTOR OF PHILOSOPHY | COMPUTER SCIENCE
DEGREE CANDIDATES

DEPARTMENT OF COMPUTER SCIENCE &
DEPARTMENT OF ENGINEERING MANAGEMENT AND SYSTEMS ENGINEERING

MASTER OF SCIENCE | DATA ANALYTICS

<table>
<thead>
<tr>
<th>Candidate</th>
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<td>Oladele Junior Adeyeye</td>
<td>Paul Abhinai Derisemu</td>
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<td>Kamran Arshad</td>
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<td>Geet Kamal Tej Dandu</td>
<td>Austin W. McCall</td>
<td>Mobolaji O. Shobanke</td>
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<td>Cal A. Davis</td>
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DEPARTMENT OF ENGINEERING MANAGEMENT AND SYSTEMS ENGINEERING

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Matthew C. Bochnik

BACHELOR OF SCIENCE | SYSTEMS ENGINEERING

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<td>Daniel Nathan Fisher</td>
<td>Esha Niraj Patel</td>
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<td>Ivanna Maureen Hidalgo Camacho</td>
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<td>James Pahdah Ferguson</td>
<td>Abdallah Khaled Omari</td>
<td>Ziqian Yang</td>
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<td>Elizabeth Rea Ottinger</td>
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<td>Ayush Kala</td>
<td>Avneet Singh</td>
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Dear Graduates,

Congratulations! You have completed one of life’s most challenging and rewarding milestones. All of your hard work and perseverance have led you to this proud moment.

Today marks the beginning of another transformational chapter of your life. The journey of being a member of a global alumni network which brings together individuals from a multitude of cultures, countries and majors.

As a recent graduate, you are uniquely positioned to offer other GW Engineering alumni guidance on what current students value the most. Alumni cutting across generations rely on your insights to build strategies for how collectively they may strengthen the school.

It is our hope that you will be motivated to carve out time to be part of your alumni community and will prioritize giving back to the school. We encourage you to remain connected by joining an alumni network in your area, keeping the alumni office informed of your new addresses and identifying ways that you can be an ambassador and door-opener for others.

As a graduate of the GW School of Engineering and Applied Science, you know that there is no worthwhile goal that is easy to achieve. You understand that the bigger the goal, the more you will face difficulties and challenges. With this in mind, we invite you to help us leverage our research, faculty and network to create a better future.

Congratulations once again and best wishes!

GW Engineering Office of Development and Constituent Engagement
The Secret of the Machines

Rudyard Kipling

We were taken from the ore-bed and the mine,
We were melted in the furnace and the pit—
We were cast and wrought and hammered to design,
We were cut and filed and tooled and gauged to fit.
Some water, coal, and oil is all we ask,
And a thousandth of an inch to give us play:
And now, if you will set us to our task,
We will serve you four and twenty hours a day!

We can pull and haul and push and lift and drive,
We can print and plough and weave and heat and light,
We can run and race and swim and fly and dive,
We can see and hear and count and read and write!

Would you call a friend from half across the world?
If you’ll let us have his name and town and state,
You shall see and hear your cracking question hurled
Across the arch of heaven while you wait.
Has he answered? Does he need you at his side—
You can start this very evening if you choose
And take the Western Ocean in the stride
Of seventy thousand horses and some screws!

The boat-express is waiting your command!
You will find the Mauritia at the quay,
Till her captain turns the lever 'neath his hand,
And the monstrous nine-decked city goes to sea.

Do you wish to make the mountains bare their head
And lay their new-cut forests at your feet?
Do you want to turn a river in its bed,
Or plant a barren wilderness with wheat?
Shall we pipe aloft and bring you water down
From the never-failing cisterns of the snows,
To work the mills and tramways in your town,
And irrigate your orchards as it flows?

It is easy! Give us dynamite and drills!
Watch the iron-shouldered rocks lie down and quake,
As the thirsty desert-level floods and fills,
And the valley we have dammed becomes a lake.

But remember, please, the Law by which we live,
We are not built to comprehend a lie,
We can neither love nor pity nor forgive.
If you make a slip in handling us you die!
We are greater than the Peoples or the Kings—
Be humble, as you crawl beneath our rods!—
Our touch can alter all created things,
We are everything on earth—except The Gods!

Though our smoke may hide the Heavens from your eyes,
It will vanish and the stars will shine again,
Because, for all our power and weight and size,
We are nothing more than children of your brain!