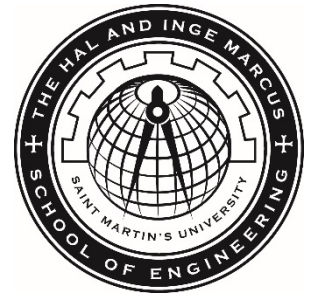




Saint Martin's  
UNIVERSITY



# CORNERSTONE

The Hal and Inge Marcus School of Engineering

Summer 2023-July



## STILL A BUSY TIME

Half-way through Summer 2023 and heading towards Fall semester! So much being done around here! You'd think it would be the quiet part of the year, but we spend a lot of time preparing, uploading, changing displays, filing, and updating catalogs, programs, and policies, as well as other activities to wrap up one academic year and being ready for the next! All that AND summer courses too!



We're also busy preparing for the initial accreditation visit from the ABET Computing Accreditation Commission for our computer science and information technology programs September 10-12. In addition, we await the final August report and award of the re-accreditation of our Civil and Mechanical Engineering programs. That visit was last fall, with absolutely no write-ups, so expectations are high!

## CONTEST - WIN A PRIZE!

Answer the following question about the Hal and Inge Marcus School of Engineering's history and win a prize! First correct answer sent to [engineering@stmartin.edu](mailto:engineering@stmartin.edu) is the winner. We'll let you know the answer in our September newsletter, who won, and what they won.

**Question:** The first accredited engineering program at Saint Martin's was Civil Engineering. What year was this accreditation awarded?

Hint: Saint Martin's was still a college and it was a regional accreditation body.

**Good luck!**

## HIMSE ATHLETES NAMED TO GNAC ALL-ACADEMIC TEAMS



To qualify for the GNAC All-Academic Teams, presented by Barnes & Noble College, nominees must be of sophomore eligibility or greater, have a minimum cumulative GPA of 3.20 or greater, be a letter-winner on their team and must be in their second year at the nominating institution. We have only listed the HIMSE student-athletes, but congratulate all Saint Martin's scholars who made the All-Academic Teams!

- **Baseball** – **Nathan Martinez** (ME), and **Hunter Sasaki** (CE)
- **Men's Basketball** – **Marcus Lenker** (ME) 3-year recipient 21-22-23
- **Softball** – **Marisol Bergstrom** (ME)
- **Soccer** – **Christian Gordon** (ME) 2-year recipient 21-22, and **Zack Martin** (CE)
- **Men's Track and Field** – **Landon Armstrong** (CS) 3-year recipient 21-22-23, **Andrew Boyd** (CE) 2-year recipient 22-23, **Kainalu Pagente** (CE), **Andrew Schulz** (CS) 3-year recipient 21-22-23, and **Lance Slichko** (MEM)
- **Women's Track and Field** – **Annika Briggs** (CE) 3-year recipient 21-22-23, and **Claire Skaggs** (ME).

## FE EXAM PREP THROUGH SMU PAYS OFF!

**Jacob Tennant** BSCE '16 took advantage of our spring-offered Fundamentals of Engineering (FE) exam prep courses this past Spring 2023 semester to refresh his memory and prepare to take the FE exam.

As you all no doubt know, the FE exam is the first of two required exams for engineers to be licensed professional engineers (PE). Before taking the PE exam, one must pass the FE exam (110 questions at about 6 hours) and have four years of work experience under a licensed engineer's supervision (it's eight years unless you have a degree from an ABET-accredited program like Saint Martin's).

Each spring semester we offer a several courses to prepare students and working engineers to take the exam. GE 495 FE Exam Prep-Pt 1 for CE&ME is offered in Term 10 for general engineering review with multiple modules offered by experienced faculty, along with CE 495 FE Exam Prep-Pt 2 CE-specific review and its corresponding ME 495 ME-specific course offered in Term 11 – all typically held Mondays 4-5p.m. These courses are 0-credit for our CE/ME seniors, so they don't have to worry about extra expense or credit overload for this career-critical review. Working engineers pay a nominal fee for each of the courses. Please pass the word on about these courses and anyone interested in the Spring 2024 cohort should contact us at [engineering@stmartin.edu](mailto:engineering@stmartin.edu) for more information by December 31st or current seniors can just add them to their spring schedules.

The program works as evidenced by **Jacob Tennant**. He recently sent us an email letting us know he passed his FE exam and is now able to officially be titled an Engineer-in-Training (EIT) in the state of Washington. With his years of work experience in the field he's on his way to taking the PE exam soon. Congratulations, Jacob, and please let us know when you are a licensed Professional Engineer too!

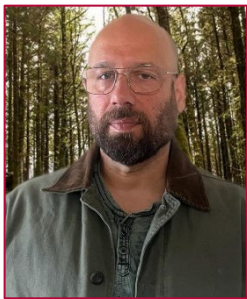
## 2023 SALUTE INDUCTEES



SALUTE Veterans National Honor Society is the country's first national academic honor society for veteran students and active-duty military members attending 2-year and 4-year institutions of higher learning. SALUTE is an acronym of the core values of the society: Service, Academics, Leadership, Unity, Tribute, and Excellence. There are four tiers of membership for undergraduates with a minimum of 12 course credits: **Alpha** GPA: 3.75-4.00 / **Bravo** GPA: 3.50-3.74 / **Charlie** GPA: 3.25-3.49 / Delta GPA: 3.00-3.24. Graduate student inductees need to have completed nine credit hours, hold at least a 3.5 GPA, and are classified as SALUTE Gold members.

This year's inductees were (HIMSE students in **RED** and graduate students are underlined): Peter Abongo, Paydrick Adams, **Sha'Vonna Brown**, Cai Brown, Roberta Colwell, Roger Dover, **Indira Fouch**, M. LeShawn Gamble, Christopher Grippo, Brittany Holland, **Kyal Huntley**, Stephanie Janssen, Tamarin Jenkins, Keely Layne, Long Le, Hannlore Perkins, Logan Porter, **Kevin Salas**, Jenna Schissel, **David Stride**, Danielle Sweeney, Kaleigh Walker, **Austin Anderson** (Tier Upgrade), Rhyan Ritter (Tier Upgrade). We offer a snappy HIMSE salute to all Saint Martin's inductees into the SALUTE Veterans National Honor Society! Well done!

## GETTING TO KNOW THE FACULTY



**Mr. Farzin Bahadori**, Full-time Instructor, Computer Science, started teaching with SMU at our JBLM campus in Spring 2016. He's currently working a Ph.D. in Applied Computer Science from Northcentral University. He has two Masters, one in Atomic and Molecular Physics, and the other in Information Systems-Cybersecurity-Project Management. He's teaches courses on both Lacey and JBLM campuses, including cloud technologies, cybersecurity, quantum computing/algorithms, ethical hacking, network security, penetration testing, and database design/management.

**Dr. Jae Chung**, Associate Professor, Civil Engineering, earned his Ph.D. in Civil Engineering from the University of Florida in 2015 and began teaching at SMU in Fall 2016. He teaches courses in construction engineering, engineering management, and professional ethics/legal issues. His research concentrates on infrastructure delivery methods and development, and engineering economics. He is program director for our Masters of Science in Civil Engineering and also the faculty advisor for our student chapters of both APWA and EWB.



**Dr. Cameron Devine BSME '16**, Visiting Professor, Mechanical Engineering, earned both his MSME and Ph.D. in Mechanical Engineering from the University of Washington. He has been teaching here since Fall 2021. Dr. Devine has years of experience designing, building, and programming robotic systems, including machine learning, collaborative robots, and kinematic solvers. He teaches courses in system dynamics, control systems, robotics, machine design, and real-time computing.

**Dr. Guangyan Li**, Full-time Instructor, Computer Science, started at SMU as a visiting professor in Fall 2020 before stepping into his current role. Dr. Li has a B.S. in Electrical Engineering, Masters degrees in both Physics and Computer Science-Engineering, and a Ph.D. in Physics. He currently teaches SMU degree-seeking computer science and information technology students, as well as those in our WAV2T computer science certificate program on both Lacey and JBLM campuses. He teaches courses in introductory computer science, web development, and Linux, business intelligence and data warehousing, and operating system architecture.





**Dr. Harold Nelson**, Full-time Instructor, Computer Science, has been teaching here at Saint Martin's on both Lacey and JBLM campuses for over 37 years! Courses he has taught include economics, mathematics, statistics, quantitative methods, database management, introductory computer science and programming, data analysis, data visualization, geographical information systems, spatial analysis, and machine learning! Dr. Nelson continues to be a valued dynamo in our faculty force!

**Dr. Rico Picone**, Associate Professor, Mechanical Engineering, earned his MSME and his Ph.D. in Mechanical Engineering at the University of Washington, and began teaching here in Fall 2014. He teaches in mechatronics, including dynamical modeling, control systems, and robotics. His research includes the enhancement of magnetic resonance technologies, as well as augmented human intelligence. He is our Masters of Science in Mechanical Engineering program director and the faculty advisor for our ASME student chapter.



**Dr. Corrie Walton-Macaulay**, Associate Professor, Civil Engineering, began teaching here in Fall 2018. He received his MSCE in 1997 from the University of Arkansas, and his Ph.D. in Civil Engineering from the University of Kentucky in 2015. Current teaching concentrations are pavement design, mechanics of materials, materials lab, and civil engineering materials. His research interests are in lab soils testing, soil-structure interaction, and lunar regolith simulants. He is also faculty advisor for our National Society of Black Engineers student chapter.

**Dr. Frank Washko**, Associate Professor, Mechanical Engineering, has been teaching at SMU since Fall 2014. He has his Masters and Ph.D. in Mechanical Engineering from Wayne State University, along with an MBA. He also has a J.D. from Georgetown University. Teaching concentrations include manufacturing processes, machine design, biomechanical engineering, and engineering law. He is program director for our Masters in Engineering Management and faculty advisor for our SAME student chapter. In Fall 2023 he starts his role as Chair of Mechanical Engineering.



**Ms. Shelbie Wickett**, Full-time Instructor and HIMSE Lab Manager, earned her BSME at SMU in 2014 and her Mechanical Engineering Masters from Seattle Pacific University. She is currently working on her Mechanical Engineering Ph.D. from Michigan Technological University. She has been teaching here since 2016, including courses in photovoltaics and parametric solid modeling, and labs in fluid mechanics, heat transfer, and manufacturing processes. As Lab Manager, she keeps our Engineering labs safe and stocked, and coordinates our lab assistants.

**NCAT WORKSHOP** In partnership with and support from the Washington Asphalt Pavement Association (WAPA), **Dr. Corrie Walton-Macaulay** was selected for the National Center for Asphalt Technology (NCAT) Professor Training Course/Workshop. It's a 5-day intensive training course incorporating lectures, laboratory exercises, and discussion to prepare a professor with information and material for undergraduate instruction. Dr. Walton-Macaulay attended June 12-16 in Auburn, AL at the NCAT facility. He has incorporated what he learned and received into his Civil Engineering Materials course, offered in Fall 2023. Special thanks to David Gent, Exec. Director, and Kim Schofield, Tech. Director of WAPA for their support and also to Randy West, Director, Travis Walbeck, Training Manager, and Stacie Hunter, Admin. Associate at NCAT for their support and hospitality.

## OUR ALUMNI AND WHAT THEY'RE UP TO



**Joshua Schulz** BSCS '20-MSCS '21-BS Mathematics '22 sent a great report on his career. "I applied to Pixelmolkerei, based in Chur, Switzerland, on Glassdoor and after 3 months and 4 interviews, they offered me the job. I will be helping to develop VR simulations in Unity (thank you CS357 – Game Dev) that surgeons and other medical professionals will use for training purposes.

I can share some of the things that I will be doing (From the Employment Agreement):

- Make sure the integrators do not break the project. Coordinate the team so that they work on the right things day-to-day to accomplish the iteration. Give constant feedback to the project manager regarding the current iteration. Drill down to the technical level and explain to the project manager what the current code will be capable of doing and what it won't.
- Interact with R&D to understand engine features and hooks provided. Work with R&D if some features don't work as advertised. Eventually act as production's team's technical spokesperson to R&D.
- Ease R&D's work by providing bug recipes for engine/gameplay bugs. Coordinate the production team to test proof-of-concepts coming out of R&D intended for the product in development.
- Learn integrator-level knowledge as well as the code API from R&D. Implement product-specific, content-specific features in code, maintain, debug, iterate and polish them with the integrators.

The company is quite small (the first interview was with the CEO), and I feel as though I have already met half of the dozen or so employees. I will work remotely out of Washington for three months until my visa is ready. Then, I'll be moving to Chur, Switzerland-- a city with 35,000 people, so nowhere near the size of Zurich or Bern. Another cool fact - from what I've read online, they believe Chur is the oldest city in Switzerland. I believe this job will be a great fit, and I really look forward to starting the work." [READ MORE](#)

**Keevan Forbes-Kashani** BSCE '19 was promoted to Civil Engineer at Thurston County Public Works! Congrats, Keevan!

**Miguel de la Melena** BSME '21-MSME '22 After graduation, Miguel spent last year teaching as a Mechanical Engineering adjunct for us. He is now pleased to announce he's started a new position at Hyster-Yale in Fairview, Oregon, as a Chassis Design Engineer. Our loss is their gain!

**Patrick Walsh** BSME '23 was recently hired at Pexco Aerospace in Union Gap, Washington. He is **pictured at right** with fellow co-worker and SMU Alum **Riley Crabb** BSME '20. Congratulations, Patrick!

**Regenal Grant** BSIT '19, MSCS '20, PhD Candidate '23 is running for Governor of Washington State – a bold and ambitious move! All the best on this journey to November 2024, Reggie! [READ MORE](#)



## Work-iversaries—Congratulations to you all!

### 1 year—

**John Pham** BSCE '19, Construction Inspector, TranTech Engineering, LLC

**Alex Blakley** BSME '22, Design Engineer, Toyota Material Handling

**John Rambo** BSME '22, Mechanical Engineer, US Army Corps of Engineers

**Logan Sousa** BSCE '22, Transportation Engineer EIT, HDR

### 2 years—

**Chad Campbell** BSME '20, Project Coordinator/Mechanical Engineer, Softronics Ltd

**German Chavez** BSCE '21, Bridge Design Engineer EIT, WA State Dept of Transportation

**Marques Santos** BSME '20, Project Engineer, University Mechanical Contractors

### 5 years—

**Blake Cloward** BSME '17, Manufacturing Engineer, Boeing

## CONTACT US - PLEASE!

If you are one of our alumni and have anything to share (position/company changes, professional achievements, or personal life accomplishments—wedding, children, anniversaries, etc.) please send your input to [engineering@stmartin.edu](mailto:engineering@stmartin.edu).

## CONTINUE THE COMMUNITY WITH LINKEDIN

Don't forget to join our LinkedIn groups to continue to keep the community vibe alive – network with each other, mentor our students, and share information about scholarships, internships, and job opportunities. All SMU staff, faculty, students, monastic members, alumni, and community supporters are welcome to join these groups and participate in the community!

[CLICK HERE TO JOIN THE ENGINEERING GROUP](#) (civil and mechanical engineering)

[CLICK HERE TO JOIN THE COMPUTER SCIENCE GROUP](#) (computer science and information technology)

## CALENDAR AND EVENTS

- ❖ Aug 2 Last day for withdrawal for Summer 02
- ❖ Aug 5 Summer Main ends
- ❖ Aug 19 Conferral date for summer graduates
- ❖ Aug 25 Faculty and student convocation
- ❖ Aug 25 Residence halls open for 1st year students
- ❖ Aug 26-27 Residence halls open for all other students
- ❖ Aug 28 Lacey campus Fall 2023 semester starts
- ❖ Sept 1 Add deadline for Fall Main session
- ❖ Sept 4 HOLIDAY- Labor Day (campus closed)
- ❖ Sept 5 Add/drop deadline for Fall 01/08/10
- ❖ Sept 7 Mass of Holy Spirit (Lacey-no classes 11A-1P)
- ❖ Sept 8 Drop deadline (and attendance accounting) Fall Main-00





## DEAN'S CORNER

Summers remain busy here in Cebula Hall. This is when we do our long-term planning and empty out our “to do” boxes.

A major focus this summer is our preparation for the initial ABET accreditation of the BSCS and BSIT programs. We submitted an initial readiness review last fall (thank you **Dr. Beer** and **Dr. Dvorak!**) and were cleared by ABET to apply. The computer science faculty worked all spring to prepare the self-study, which was submitted in late June.

Previous HIMSE ABET accreditations were under the Engineering Accreditation Commission (EAC). Computer science and information technology fall under the Computing Accreditation Commission (CAC). We are learning that there are small and interesting differences in the way the CAC does its business compared to the EAC. **Dr. Dvorak** has been very busy responding to queries from the visit team. It is our goal to have resolved any potential issues prior to the team arriving for their on-site visit.

The CAC team visit will be 10-12 September. The exit briefing with the initial findings will be on the 12<sup>th</sup>. If the visiting team identifies any initial potential shortcomings, we will have the rest of the school year to resolve them. The CAC will let us know the formal results of this accreditation visit in August 2024. We are aware of some possible sticking points, but are overall confident that we will satisfy our accreditors.

I wanted to thank the donors to the various Engineering Gift Funds that are hosted by the office of Institutional Advancement. We have several faithful donors who contribute regularly and also had many donations during the 3.21 Giving Day. We had a generous bequest this year from the estate of Orin Hebert. This last school year, those funds supported scholarships for students in distress, faculty development, student participation in competitions, student travel to several conferences, and helped defray the costs of the Engineering Banquet and Engineering Awareness Day. Your donations provide the “grease” that keeps many of our activities moving and enriches the education of our students. I am always grateful to our donors.

On a personal note, I continue to recover from my second total hip replacement. I appreciate the notes and prayers of support.

Best wishes,

**David H. Olwell, Ph.D., Professor and Dean  
Hal & Inge Marcus School of Engineering**



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