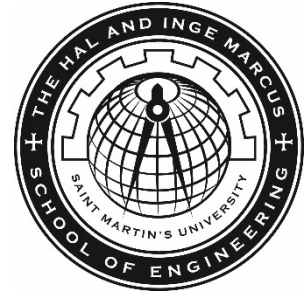




Saint Martin's
UNIVERSITY



CORNERSTONE

The Hal and Inge Marcus School of Engineering

September 2024



COMMIT TO CONVERSATIO



Here we are again at the beginning of another academic year with the Hal and Inge Marcus School of Engineering at Saint Martin's University. Each year the university chooses a new theme, and this year is the Year of Conversatio. *Conversatio* is the Benedictine word for 'this way of life' – the way of formation and transformation. It represents a lifelong commitment of letting go of the more self-centered secular way of life to live a Christ-centered and more sacred life. One commits to an ongoing conversion –*conversatio morum*-- to manifest the divine core of one's being. It requires a dedication to a pattern of positive habits and a core of quality values. This transformation proceeds over your lifetime and is tested in many ways. You will have to move out of your comfort

zone, challenge some ingrained lessons, cultivate personal breakthroughs, and foster superior habits of mind, emotion, body, and spirit that keep you moving towards a likeness of Christ. So, in this Year of Conversatio, start this journey or, if you have already started, continue to move ever forward on the path and enjoy the adventures and blessings it brings! BTW – I guess Saint Martin's will have me for a couple more years! Best to all -- Tam

ERROR IN JULY NEWSLETTER

Justin Stratford, then a senior in civil engineering, was inadvertently left off the list of those students who made the Dean's List for Spring 2024 in the July newsletter. Justin – you made the grades and deserve the recognition. Our apologies for the error.

SAVE THE DATE!

February 21 530-8PM Engineering Banquet

Our annual event for the HIMSE community! Socialize, network, learn about this year's senior design projects, hear an amazing guest speaker. More to come and how to buy tickets in November and January issues! Watch for the newsletters, email notices, or HIMSE page on the SMU website! Plan to come!



DEAN'S CORNER

I have been asked to serve as interim dean of the College of Arts and Sciences (CAS) for the remainder of this school year, in addition to still serving the Hal and Inge Marcus School of Engineering. This is a huge increase in responsibilities and workload. I thank the HIMSE team in advance for their help.

I am going to miss Dr. Coby here on campus. Aaron is a very skilled dean who has led CAS during a very tumultuous time. His calm leadership style, care for people, and willingness to do difficult work all contributed to a very successful term as dean. I consider him a friend as well as a colleague. He leaves big shoes to fill.

I agreed to serve as interim dean when asked: I did not seek this duty. I am very grateful to Dr. Floraliza Bornasal, who has agreed to serve as associate dean in HIMSE to release some much-needed bandwidth for me to assist CAS. Liza was already having a busy year with the departure of Dr. Walton-Maccaulay, and her generosity of spirit is remarkable!

I am also very grateful to Ms. Tam Leger, who has agreed to stay on at Saint Martin's to help with this transition. I do not exaggerate when I say I rely on her abilities and wisdom daily.

Mr. Adam Takata has agreed to serve as associate dean at JBLM, relieving me of those duties. Adam's abilities and energies are legendary, and I am very appreciative of his willingness to help.

There are many discussions on campus about regrouping and repositioning to best serve our current and future students. Our new President, Dr. Bill Brownsberger, has made a very promising start.

I want to make a special thanks to those who support our annual Gala fundraiser for students. Many of you have purchased tables and seats, will bid on auction items, and will make pledges during our Feed-a-Mind paddle raise. Your support is needed more than ever, and truly enables students to attend and succeed. Thank you! Thank you!

On a personal note, my Mom died in early September after a short battle this summer with an aggressive cancer. This has been a painful experience, as you can imagine. She gave me the gift of life and the gift of the faith. I miss our daily phone calls. Thank you for your expressions of sympathy and support. I want you to know that Mom died fortified and comforted by the Sacraments, in home hospice, and with family present. I hope that when my time comes, and when yours comes, too, that we are all similarly comforted and fortified. In the end, faith and family are all we have. Tempus fugit, memento mori.

Best wishes,

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

CONTEST – WIN A PRIZE!

This question was asked in the July newsletter: **The Tacoma Narrows bridge, which collapsed four months after its opening on July 1, 1940, is known by what alliterative nickname? (The bridge collapse was captured on film and the remains of the bridge have been placed on the National Register of Historic Places.)**

The correct answer was **Galloping Gertie** and was sent in to us by **Heidi Schnebly**, Associate Dean, Office of Graduate Admissions. As her prize, Heidi received a multi-tool pen (incl. pen, stylus, level, flathead and Phillips screwdrivers, and ruler)! Congratulations, Heidi!

Here's the next question for some lucky reader. Again, send all answers to engineering@stmartin.edu. First correct one wins something equally useful!

Question: What is the name of the world's fastest supercomputer, as of JUNE 2024? Supercomputer performance is measured using floating-point operations per second (FLOPS) – where ONE floating-point operation is a mathematical calculation. Normal PCs and laptops usually have power of several hundred gigaFLOPS – 1 trillion FLOPS. The supercomputer in the question now exceeds 1.2 exaflop – one quintillion (a million trillions-1,000,000,000,000,000,000 calculations per SECOND) FLOPS and first came online in 2022.

Good luck – answer in the next edition of Cornerstone!

GREAT SUMMER INTERNSHIP

Charles Ganu, mechanical engineering student, recently reported about his summer internship on LinkedIn.

Here's what he had to say:

"I have recently finished my 11-week internship with the city of Sumner as a Public Works Engineering intern. It was a memorable experience, as I was able to not only learn many things about the city of Sumner, but also learned how engineers help the city develop and prosper. I was able to be a part of that impactful process. I would like to thank my supervisor Courtney Littrell, of the City of Sumner Public Works department. This photo is of me (on left) and my fellow colleague, Andrii Mastruk, also an intern at the city of Sumner. We worked very closely towards the end of my internship on numerous projects that required several meetings, inspections, engineer solutions, and analysis. I would also like to give a special thank you to Gursimran Singh for being such a great colleague to work with and learn from out in the field. I helped Gursimran on his Sight distance analysis and calculations. This work led to the creation of his Engineering memo using our results. This was truly a meaningful experience and learning opportunity. Thank you, City of Sumner and Degrees of Change (Seed Internships)." Thanks to you as well, Charles!



PROVISIONAL PATENT FILED

Based on work done on their senior project last year, the following team of students/alumni and their professor have filed a provisional patent application titled "Smart IoT Hidden Device Detector". This novel system detects hidden cameras in places like hotels. The system has strong commercialization potential. To see more about this interesting project, the poster is displayed on Cebula 2nd floor, as the project won the 2024 CS Senior Design Project of the Year! Congratulations to **Nadaa Elbarbary**, **Hayden Jones** (current BSCS and Math major), **Garrett Orwig**, **Krizia Ragotero**, and **John Whiteman** (former CS adjunct).

COMPUTER SCIENCE DEPARTMENT NEWS

Dean David H. Olwell is proud to let everyone know that ABET-Computing Accreditation Commission has accredited our Bachelor of Science in Computer Science and our Bachelor of Science in Information Technology programs! This accomplishment proves our commitment to offering the best possible academic programs for our stakeholders and students.

Dean Olwell is also happy to announce that the Northwest Commission on Colleges and Universities (NWCCU) recently approved our new degree program for a Bachelor of Science in Cybersecurity. We will be admitting students for a Spring 2025 start, approved for both face-to-face and online delivery.

Both are VERY positive steps forward! Congratulations to everyone in the Computer Science Department!

WAV2T GRADUATION- AUGUST 16, 2024

On August 16, 2024, the WAV2T program graduated 50 students, who received both their program certificates and membership in The Pledge of the Computing Professional, a professional organization for computer scientists.

Cloud Application Development: Julian Bowen, Prem Chhay, Shay Evans, Oscar Hernandez, Jonathan Lee, Matthew Meinke, Robert Mella, Matias Rivera, Yuselmi Rodriguez Pacheco, Travis Smith, Joshua Tobin

Cybersecurity Administration: Herman Ada, Diego Alcantara, Jesus Cazares Blanco, Jason Cho, Ethan Enriquez, Jimmie Hardy, Hunter Hill, Alexander Hoffmann, Joseph Ledbetter, Ian McGuffin, Steven Moran, Elvis Nfora, Michael Potenzzone, Jermain Reed, Victor Renderos, Matthew Sharpe, Tyler Wright

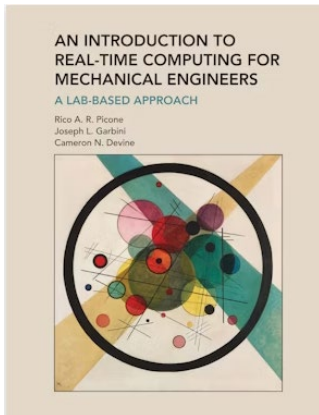
Server & Cloud Application: Basil Benjamin, William Burch, Kelvin Butler, Matthew Camacho, Dan Carliesle, Isabel Cazares Baldovinos, Jahred Cheney, Justin Cooper, Noel Daly, Kadie Demich, Heath Ensele, Rodney Guyant, Garrett Hall, Armon Jackson, Jeanpaul Kamari, Yanick Kamdem, Sam Lim, Kyle Maben, Dj Ounkeo, Juliana Perry, Olivia Ramsey, James Stewart

Keynote speaker for the event was Arnold 'Arnie' Norem, Education Services Officer at the JBLM Stone Education Center since January 2018. In this role, Mr. Norem also holds the position of Army Continuing Education System (ACES) Division within the Directorate of Human Resources (DHR).



Students of the Summer 2024 WAV2T program attending the graduation ceremony 8/16/2024

FACULTY NOTES – NOTED FACULTY



Dr. Rico Picone, Dr. Joseph L. Garbini, and Dr. Cameron N. Devine are to be congratulated on the publishing of their co-authored book “An Introduction to Real-Time Computing for Mechanical Engineers”, published by The MIT Press just this month! It’s 488 pages that integrates theory and application on real-time computing for mechanical engineers and engineering students! Congratulations to you all on this great accomplishment! [**READ MORE**](#)

Dr. Radana Dvorak (CS Chair), Mr. Farzin Bahadori (CS FT Instructor) and Mr. John Whiteman (former CS adjunct faculty) presented two papers at the June 23-26 national conference for the American Society for Engineering Education in the Computing and Information Technology Division-- “Leveraging Open Source Tools to Teach Quantum Computing Foundations: Bridging the Future Workforce Gap in the Quantum Era”, Farzin

Bahadori and Radana Dvorak, Ph.D. and “Integrating Cybersecurity in BSCS/IT Senior Design Capstone Projects: A Case Study”, Radana Dvorak, Ph.D. and John Whiteman. Congratulations to you all!

Dr. Shawn Duan and mechanical engineering undergraduate and graduate students have had two technical papers accepted by ASME IMECE 2024 proceedings after rigorous blind-peer review:

1) Limata, K., Hu, Q. F., Duan, S. Z. (2024) "Analysis and Simulation of Two-dimensional Dual-arm Manipulator for Baseball Training" ASME 2024 IMECE Proceedings, Paper # IMECE2024-141597, pp. 1-9.

2) Anunobi, F., Spitler, Q., McGarrah, P., Duan, S. Z., (2024) "Wave Energy Converter for Off-grid Applications" ASME 2024 IMECE Proceedings, Paper # IMECE2024- 137732, pp. 1-11.

These papers will be presented at the ASME International Mechanical Engineering Congress & Exposition (IMECE) November 17-21, 2024 in Portland, Oregon.

OUR ALUMNI AND WHAT THEY'RE UP TO

Dr. Cameron Devine, BSME '16 and recently ME Visiting Professor and his wife Tamara Ramsay, announced the birth of their beautiful baby girl, Darcy Grace Ramsay-Devine, born on July 26, 2024. What a cutie (photo at right)!

Robert Bone III, BSME '20, recently started a new position as a Manufacturing Engineer at Semtech in Colorado Springs. Congrats, Robert!

Kelcie Hopkins, MSEV '23, started a new position as a Forest Practices Engineer with the WA Dept. of Natural Resources. Great news, Kelcie!

Ali Abuali, BSCS '20, just started a position as an IT Specialist with the Colleges of Excellence in Riyadh, Saudi Arabia. Great job, Ali!

Joy (Arguijo) Sauer, BSCE '18, announced she was promoted to a Civil Engineer 2 position with Pierce County Public Workers, where she's been with for over 5 years now. Congratulations, Joy!

Work-iversaries—Congratulations to you all!

1 year—

Annika Briggs, EIT, BSME '23, Geotechnical Engineer, Kleinfelder in San Diego.



2 years—

Jamie Johnson, BSME '21, Mechanical Engineer, Caterpillar Inc.

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

Raj Bhetwal, BSCS '18, MEM '23, Application Database Administrator, Booz Allen Hamilton.

Micah Au-Ha'upu, BSIT '22, Information Technology Analyst, Kimley-Horn, Phoenix, AZ.

3 years—

Ryan McMahon, BSCS '17, Application Developer, WA State Dept. of Revenue.

Abdullah Ghurab, BSCS '19, Cybersecurity System Analyst, Aramco, Dhahran, Saudi Arabia.

4 years—

Jeremiah Enright, BSME '16, MME '18, Avionics Design Mechanical Engineer, Blue Origin.

6 years—

Blake Cloward, BSME '17, Manufacturing/Production Engineer, Boeing.

CONDOLENCES

Thomas A. Davis, BCE '62, passed peacefully on August 26, 2024, in his home in Olympia, WA, at 84 years old. Thomas graduated from Olympia High School in 1958 and went on to earn his B.S. in Civil Engineering magna cum laude from Saint Martin's University in 1962. He furthered his education with an M.S. in Civil Engineering Construction from Stanford University in Palo Alto, CA in 1963. A distinguished career in civil engineering followed, highlighted by his role as a project manager with the Washington State Department of Corrections.

[READ MORE](#)

CONTINUE THE COMMUNITY WITH LINKEDIN

Don't forget to join our LinkedIn groups to continue to keep the community vibe alive. All SMU staff, faculty, students, monastic members, alumni, and community supporters are welcome to join these groups.

[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

- ❖ Sep 23 Midterm grades due for Fall 01, 08, 10
- ❖ Oct 4 Last day for withdrawal (W grade) for Fall 01, 08, 10
- ❖ Oct 14 Columbus Day/Indigenous People's Day (JBLM campus closed; Lacey campus open)
- ❖ Oct 19 Last day of classes for Fall 01, 08, 10
- ❖ Oct 21 Midterm grades due for Fall Main-00 AND Sessions 02/09/11 start date
- ❖ Oct 21-22 Fall Break (for Lacey campus Fall Main/16 week sessions ONLY)
- ❖ Oct 28 Add/Drop deadline for Fall 02, 09, 11
- ❖ Nov 6 Advising Day (no Lacey campus classes)
- ❖ Nov 11 HOLIDAY- Saint Martin's Day/Veteran's Day observed (both campuses closed)
- ❖ Nov 12 Priority registration for Spring 2025

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. To unsubscribe from this list or to update your contact information, please email engineering@stmartin.edu.

