

MAURITS AMADEUS DEMAN

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Relevant Work Experience

NXP Semiconductors—ATE Test Engineer

June 2025

- Worked on DDR testing for the i.MX product family using Teradyne Ultraflexplus testers in construction of production tests.
- Coordinated with Product, Validation, and DFT teams for higher efficiency in product introduction and production.
- Scripted in Python, Perl, and Visual basic (VBA/VBT) for test, data manipulation and analysis for production.
- Reduced test time by 30% for 2/5 major DDR tests on two new products for greater efficiency/margins.

Samsung Austin Semiconductor—Semiconductor Engineering Intern

May-August 2024

- Deployed a McMaster-Carr sensor with a PCB on a TEL tool and transmitted signal back to office for signal processing.
- Created an automated/scripted BKM data backup routine that allows AMAT Epi tools to back up valuable data without idling.
- Used CAD and other 3D printing software to create innovative solutions to daily tasks within the fab for greater efficiency.
- Contributed to existing equipment database software to allow for easier access regarding tool administration/ownership.
- Interfaced with vendors, extensive clean room experience, and contributed to ladder logic for PLCs deployed within the fab.

Watermelon Lover—Honors Senior Design Capstone Project with Dr. Neal Hall—Project Lead

August 2024-2025

- Led a team to design a non-destructive MEMS device to accurately and quantifiably predict the sweetness of watermelons.
- Coordinated design, testing, and stakeholder reporting, resulting in a 0.2 accuracy rating on a 7-point scale using ML.
- Oversaw the full product development cycle: sensing, signal processing, PCB design, packaging, and algorithm design.

Education

UT Austin Cockrell School of Engineering (Master's Program)

MSE: Electrical and Computer Engineering in Integrated Circuits and Systems
GPA: 4.0

August 2025-

The University of Texas at Austin (Double Bachelor's)

Majors: BS in Electrical and Computer Engineering (Nanotechnology and Nanoelectronics) + BA in Plan II Honors
Minor: History
GPA 3.7445

May 2025

Skills

Skills: C/C++, Java, Python, Perl, Visual Basic, SQL, Verilog, Assembly, Linux/Unix, Git, Cadence, LT/Q Spice Simulation, Teradyne and Advantest ATE platforms, KiCAD, Keysight ADS, MATLAB, MS Office, Clean room/Wafer probe, Data Structures /Algorithms, CAD Printing/Design, Classical/Quantum circuit design.

Languages: Fluent in English and Dutch, Basic Knowledge in French (US/EU Dual Citizenship)

Interests: Semiconductors, Quant Finance, Quantum Computing, Geopolitics, History, College Football, Philosophy, Golf

Thesis: Orientalism in Dune: A literary analysis of the use of Orientalism and Orientalist tropes in Frank Herbert's Dune

Leadership/Community Service

Phi Kappa Psi Executive Team—Philanthropy Chair

December 2022-December 2023

- Led a team of 15 members; coordinated and executed volunteering and fundraising activities in the Austin community.
- Coordinated over 1000 hours of volunteering for ~150 members/semester and raised money through fundraisers/initiatives.
- Raised over \$10,000 for multiple philanthropies including the Boys and Girls Club and initiatives against drunk driving.

Plan II Consulting—President

Spring 2022-May 2025

- Focused on consulting small grass root companies from their infancy, focusing on an interdisciplinary approach.
- Taught consulting skills to younger students through mentorship and exposure to consulting concepts as an officer.
- Designed the curriculum and leading and organizing the team in cooperation with companies as the president.

Phi Kappa Psi Recruitment Team—Head of Out of State Recruitment

Summer 2023

- Coordinated and helped lead a team of 30 individuals to recruit and advise a Fall new member class of 63 for the fraternity.
- Oversaw a budget of over \$70,000 dedicated to planning and executing events designed to market/recruit for the fraternity.
- Oversaw a near 50% increase in new members from 38 to 63, allowing the fraternity to succeed socially and economically.

Awards and Honors

- Invited to the Phi Beta Kappa Society Texas Alpha Chapter—top 8% at the University of Texas 2025
- President's Volunteer Service Gold Award 2018
- College Scholar at the University of Texas for top 15% in both the College of Engineering and Liberal Arts 2023/2024