K. SLOAN LOUDEN-ROBINS
ELECTRICAL ENGINEER
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Portfolio: LinkedIn:

EDUCATION (100% Self-Financed)   December 2025
Bachelor of Science in Applied Mathematics
Bachelor of Science in Electrical Engineering - Computer Engineering
Minor in Computer Science
Ingram School of Engineering – ABET Accredited Program – Texas State University – San Marcos, Texas

RELEVENT COURSEWORK
- Circuits 1 & 2
- Electronics 1 & 2
- Machine Learning
- VLSI Design
- C++ Programming 1 & 2
- Microprocessors

TECHNICAL SKILLS AND CERTIFICATIONS
- Simulation – LT Spice, Top Spice, Microwind, Multisim, MATLAB
- Languages - C++; Python; Unix/BASH

PROJECTS
Project Manager   January 2025 – December 2025
Foundation Monitoring System, Ingram School of Engineering
- Documented the team's design and procedures, and delegated tasks to team members.
- Assigned weekly schedules with sponsors, mentee teams and civil teams.
- Analyzed costs, managed Bill of Materials (BOM), and balanced financial sheet.
- DRI for the data processing subsystem, interpolated and interpreted data, developed filtering algorithms implemented on central hub for varying sensors, researched vectoring scoring techniques and machine learning models. Streamlined file validation in Python and created S.O.P for hand off to next team.

Co-researcher   September 2025 - Present
Scatter Detector, TXST Space Lab
- Researched scatter detectors and nephelometers to design custom payload for a HAB system.
- Developed project timeline and created project proposal document.
- Designed: PCB in KiCad, scatter chamber in SolidWorks – coded payload for CO_2 density measurements

EXPERIENCE
Undergraduate Research Assistant   January 2024 – May 2024
Mathematics Department Texas State University, San Marcos, TX
- Worked with Dr. Guillen to study sparse matrices and Fourier series decomposition

Lead Stylist   April 2013 – Present
LoLa Beauty, Austin, TX
- Received Glammy's award in 2017 and Best of the Knot Hall of Fame 2015-2024.
- Coordinated with assisting stylists, vendors and clients enabling efficient time allotment
- Resolved conflicts through effective communication and negotiation skills ensuring client satisfaction.

Learning Ambassador   June 2020 – June 2021
Amazon Warehouse (DAU2), Austin, TX
- Collected data and conducted surveys to propose ideas for overall workflow improvements
- Directed ~100 employees to ensure 60K+ packages are efficiently and safely prepared for delivery.

Assistant Manager and Stylist   April 2013 – May 2015
Gloss Beauty, Austin, TX
- Maintained inventory, managed multiple stylist's schedules, and balanced weekly finances
- Built and maintained clientele with a high retention rate.

ACTIVITIES
Member, Institute of Electrical and Electronics Engineers (IEEE)   September 2022 - Present
Member, Society of Women Engineers (SWE)   September 2024 – Present