Sonya M. Konon

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EDUCATION

University of Michigan, Ann Arbor, MI — ***College of Engineering***
BSE, Electrical Engineering — **Class of Fall 2025**

- 3.67 GPA
- Relevant Coursework: Solar Energy and Wireless Systems, Electromagnetics I, Introduction to Electronic Circuits, Programming and Introduction to Data Structures

SKILLS

Technical:

- *Software*: Matlab, C++, Python
- *Application*: Creo Parametric 7.0 CAD software, Adobe Animate, Excel, VBA
- *Analytical Tools:* OpenModelica, Turbo Lab, KFlexExplorer

Language: Spanish, Greek

WORK EXPERIENCE

Schaeffler Group North America, Troy, MI — **May–August 2023**
Co-Op Engineer - Chassis Mechatronics

- Collaborated on the development of a rear steer system tailored for the North American automotive market.
- Engaged in sensor integration and calibration, focusing on a linear position sensor to ensure precise data acquisition.
- Utilized the SENT communication protocol for sensor data transmission.
- Familiar with the requirements of ISO 26262:2018 Road Vehicle - Functional Safety.
- Executed tasks including soldering, wiring, and construction of a sensor data collection harness, demonstrating a hands-on approach to hardware development.

General Motors, Warren, MI — **May 2022**
Intern

- Partnered with GM staff on vehicle testing and discussing technicalities of the electrical and software engineering fields.
- Availed in the testing of a 2023 GM truck to determine if specific digital display functions needed improvement.
- Thoroughly discussed software platforms like JAVA and Python, leading to an introductory level of understanding.
- Utilized the GM process of develop, test, build, and launch to further knowledge of the engineering process.

Lakeview Public Schools, St. Clair Shores, MI — **May 2022**
Intern

- Researched recreational equipment and surveyed elementary school staff and students to assist the district superintendent with an upcoming construction project.
- Developed professional relationships, surveyed spaces, and made architectural judgements to conduct research.
- Created electronic surveys and display boards to gain consumer insight.

RESEARCH EXPERIENCE

Simulators of Physiological Regulations, Ann Arbor, MI — **September 2022–April 2023**
Research Assistant

- Collaborated in a team to develop simulators and digital models to represent several different cardiovascular processes.
- Utilized the programming language OpenModelica to build digital models.
- Analyzed and solved technical software issues relating to a virtual machine.
- Implemented analysis and problem solving techniques to solve several technical issues dealing with computer software.
- Incorporated aspects of web design (HTML, JavaScript) into project core.
- Presented findings to an audience of 800 students and faculty at an annual research symposium and was awarded a blue ribbon of excellence.

PROJECT EXPERIENCE

University of Michigan - Ann Arbor
Solar Energy and Wireless Systems

- Developed an Arduino-based solar-powered smoke detector.
- Utilized Arduino components and programming techniques to effectively detect smoke and promptly notify users.
- Spearheaded prototype assembly and structural framework.

UM Supermileage

- Active member of the Electrical Systems subteam with intended focus on Powertrain PCB Mounting & Integration.

ORGANIZATIONAL INVOLVEMENT

IEEE Eta Kappa Nu (HKN) Honor Society	**September 2023–Present**
Women in Science and Engineering (WISE)	**August 2022 – Present**
Society of Women Engineers (SWE)	**August 2022 – Present**
Girls in Electrical Engineering and Computer Science (GEECS)	**August 2022 – Present**
Hellenic Student Association – Vice President of Social Affairs	**August 2022 – Present**
DECA – President and Media Director	**September 2020 – June 2022**