

Merrick Rumel

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Electrical & Computer engineer with a strong background in embedded applications.
Detail-oriented and organized with a creative mindset and strong project management abilities.

Education

Western Michigan University, Kalamazoo, Michigan

- o Major: Bachelor of Science Computer Engineering
- o Minors: Computer Science and Math

Technical Proficiencies

- o Software: Altium, Solidworks, LTspice, Eagle, Simens Polarion, IBM Doors, KiCAD, AutoCAD
- o Coding: Python, C, C++, C#, FPGA, Matlab, Simulink, Java, JavaScript, Labview, and PowerShell
- o Markdown: Markdown, HTML, and CSS
- o Operating Systems: Linux/Unix, Windows 7, Windows 10 and MacOS X
- o Communication Protocols: CAN, CAN-FD, LIN, Ethernet, SENT, UART, UART over CAN

Work Experience

Electrical Engineer – JVIS USA.....November 2024 – Present

- o Design interior lighting control modules for LED lighting applications.
- o Work with crossfunctional teams to insure validated products are delivered to customers.
- o Implemented new project lifecycle management system to insure bi-directional tracability of requirements.

Electrical System Architecture Engineer – Flex N Gate.....August 2022 – October 2024

Flex N Gate is a global leader in lighting and plastics. Working as an electrical engineer designing electronics for automotive exterior lighting.

- o Design highly integrated lighting schematics and perform worst case circuit analysis for LED lighting application.
- o Perform EMC testing and make design improvements due to EMC compliance testing.
- o Develop system-level requirements, designs, and execute project plans.
- o Perform functional decomposition for new system architectures.

Team Lead - Robotics & Automation – Fisher & Company.....February 2021- August 2022

Fisher & Company is a global leader in engineered seating systems. Worked as programming and electrical lead for an autonomous material handling system.

- o Oversee the programing and software design for 28 autonomous vehicles that are currently in production.
- o Select Electrical components and draw electrical schematics for the autonomous system.
- o Design custom printed circuit boards for use in the autonomous vehicles.

Leadership

Innovation Club – Equipment & Technology Director.....Spring 2017 – Fall 2020

- o Oversee equipment in the university makerspace to ensure usability for all members.
- o Manage the specialized computer equipment in the university makerspace to advance innovation.
- o Developed in-depth knowledge of Arduinos, microcontrollers, and single board computers, such as the Raspberry Pi, to support member projects.

WMU Men's Rugby Club – Vice President.....Fall 2017 – Spring 2020

- o Represent Men's Club Rugby at Sports Club Council securing funds and advises on club sport teams.
- o Correspond with coaches and players to insure a smooth-running team.
- o Secured club funds semester over semester, in excess of \$3,500.