Ryan Majstorovic

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Education

Iowa State University – Bachelor of Science in Electrical Engineering   Exp. December 2026

Work Experience

John Deere Part Time Student Engineer
October 2025 – Present

- Strengthened requirement quality by reviewing requirements for clarity, testability, and traceability, documenting gaps and errors, supporting review discussions to ensure deliverable deadlines.
- Enabled data driven decisions by analyzing fleet data, summarizing key trends and anomalies, and packaging findings for stakeholder reviews to support requirement updates and prioritization.

AutoZone Commercial/DIY Sales
June 2022 – September 2025

- Leveraged technical expertise in automotive systems to troubleshoot customer concerns and provide solutions that enhanced customer confidence and satisfaction.
- Collaborated with commercial clients to fulfill orders, including handling special requests, and coordinating a team of drivers to consistently meet on-time delivery and service-quality targets.

Projects

Smart Home Thermostat
- Designed and programmed a smart home thermostat using an ESP32 microcontroller with Wi-Fi connectivity, integrating with Home Assistant to support real-time monitoring and automation.
- Utilized Autodesk Fusion to design a custom PCB supporting sensor input, relay control, and power regulation for compact and efficient hardware functionality.

CyBot Project
- Integrated an embedded system on the TI Tiva TM4C123G microcontroller to control a mobile robot using real-time sensor data and UART communication.
- Implemented real-time scanning and movement logic allowing the robot to reach a set destination while dynamically detecting and avoiding physical barriers.

Skills

- Communication Protocols: CANBUS and UART
- Coding Experience: MATLAB, C, VHDL, PYTHON
- Hardware: TI-TIVA Microcontrollers, ESP32, Arduino, Intel FPGA
- Software: Office Suit, Simulink, LTspice, PLECS, Autodesk Fusion
- Bi-Lingual in English (native) and Serbian (secondary)