

Dylan C. Montgomery

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OBJECTIVE

Obtain a Summer 2025 internship in a data technical domain to work on creative customer driven solutions

EDUCATION

The University of Akron | Akron, OH

Anticipated graduation: December 2025

- Bachelor of Computer Engineering with a minor in Math 3.3 GPA
- Williams Honors College, Akron Guarantee, and Affordability Scholarships
- **Relevant Coursework:** Embedded Systems, Control Systems, Digital Design, Linear Algebra, Data Structures, Algorithms and Applied Numerical Methods, Application Design

Hudson High School | Hudson, Ohio

August 2016- May 2021

- Graduated with Honors May 2021, 4.2 GPA
- **Leadership:** Captain, Swim & Dive Team | Founding Member, FIRST Robotics Team

TECHNICAL SKILLS

- **Programming Languages:** Most learned in C++ & DHTML; familiar with Python & C/Embedded C
- **Tools:** KiCAD, Visual Studio, Git, MATLAB, Ghidra, Bash Terminal, GitHub.
- **Other Skills:** Data Architecturing, Data ETL, EMR Emissions Testing Linux API app development, Logic Filtering with Data Enumeration, & CAN-Bus sensor programming
- **Languages:** Fluent in English, Literate in Russian

WORK EXPERIENCE

Electrical System Engineer| Stanley Black & Decker | Valley City, OH

May 2023-September 2023

- Developed and integrated CAN-Bus Networks for next-generation landscaping machinery.
- Programmed lithium-ion battery integrated circuits and in-field integrated systems debugging.
- Conducted EMI/EMC testing and generated technical reports for product certification.
- Collaborated with cross-functional teams to troubleshoot and enhance sensor data accuracy for prototypes.

Assistant Golf Pro | Lake Forest Country Club | Hudson, OH

April 2018-July 2023

- Leveraged customer interaction and networking skills to increase new member referrals.
- Utilized Point of Sale systems to improve operational efficiency in customer transactions.

LEADERSHIP AND INVOLVEMENT

Participant | I-Corps Entrepreneur Pitch Competition

December 2024 – Present

Vice President | UA Hackron Club

March 2023 – Present

Mentor | Big Brothers Big Sisters Program

February 2022 – Present

Member | Golden Key International & UA Chapter NHS

September 2023 – Present

DriveTrain and ECU Team Lead | Zips Electric Racing

January 2022 – May 2023

- Lead the design and integration of the dashboard for the racing team's electric vehicle.

DESIGN PROJECTS

Device Modularization Control Gate Deck

October 2022-Present

- Built a modular control deck to integrate a custom ECU for real-time engine data collection and open-source tuning software.
- Implemented CAN-Bus data sensor-based ETL, focus on scalable software modularity for later expansions

Linux Custom RunTime Environment

July 2021-Present

- Created a C++ base layer for a Python GUI, enabling data schema interfacing for small businesses
- Developed an ETL pipeline to automate Medicare/Medicaid dataset processing