

Antonio Ristevski

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CAREER FOCUS

Dedicated and motivated engineer pursuing a career in automotive testing and embedded systems. Experiences with Controller Area Network (CAN) protocol, microcontroller programming, and project management, with strong communication, problem-solving, and leadership skills. Able to learn quickly and adapt to a fast-paced environment.

EDUCATION

Bachelor of Science of Engineering, Electrical Engineering
Oakland University, Rochester MI

GPA: 3.72
Expected Graduation December 2025

EXPERIENCE

Formula SAE Software and Data Lead

May 2023 - Present

Oakland University, Rochester, MI

- Improve data collection efficiency by 52%, reducing driver wait time and ensuring optimal track performance.
- Enhance readability and comprehension of over 5000 lines of legacy C++/C code written more than 5 years ago through comprehensive optimization and rewriting.
- Supervising and directing 10+ Engineers to develop data analysis software to analyze analog and digital signal data from PE3.
- Addressing and resolving debugging issues in Python, C/C++ code, and ESP32 compiler-related challenges.

Electronics and Data Acquisition Member

March 2023 - Present

Oakland University, Rochester, MI

- Communicating with subsystems leads to understanding their data requirements and employing a range of data collection tools to improve and validate various systems.
- Conducting signal tests, configurations, and validation of digital sensors and sensor data utilizing Vehicle Spy 3.

FORMULA SAE PROJECTS

Engine Harness Wiring and Validation

- Connected and configured more than 20 sensors to an Electronic Control Unit (ECU) to transmit sensor data via the Controller Area Network (CAN) to the ECU.
- Conducted continuity checks on over 90 connections within the harness, verifying their functionality and eliminating any potential shorts or electromagnetic interference (EMI).

First-Year Recruitment and Management Proposal

- Implemented an email outreach strategy to connect with first-year students, leveraging the team's status as the largest student organization at Oakland University.
- Implemented a personalized approach to bridge the social gap within the team hierarchy, emphasizing relationship building.
- Proposed a structural overhaul of the team's management to support the new retention strategy.

WORK EXPERIENCE

Peer Tutor

September 2023- Present

Oakland University, Rochester, MI

- Providing individualized academic support to an average of 7 students simultaneously, offering guidance and clarification on mathematical concepts and problem-solving techniques.
- Certified in tutoring math courses in differential equations, and intro to circuits.

TECHNICAL SKILLS

- Software: Vehicle Spy | PE3 Monitor | Git | Race Render | Catia V5 | ESP-IDF
- Programming Languages: C/C++ | Python | MATLAB
- Other: CAN Protocol | UART | Multimeters | Oscilloscopes | Function Generators