

RYAN HACKNEY

ELECTRICAL & COMPUTER ENGINEER



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PROFESSIONAL OVERVIEW

Electrical & Computer Engineer skilled in embedded programming, systems integration, and troubleshooting. Experienced with robotics, embedded systems, and automotive diagnostics. Currently pursuing cybersecurity expertise and certifications to move into a technical engineering or cybersecurity role.

RELEVANT EXPERIENCE & TECHNICAL PORTFOLIO

Agricultural Operations Manager | Self-Employed

December 2019 – Present | Galloway, 2019- Present

- Applied **engineering principles** to optimize homestead infrastructure, implementing automation systems for resource management and operational efficiency.
- Managed comprehensive, self-directed operations, demonstrating strong **project management** and resource allocation skills across diverse systems (livestock, beekeeping, infrastructure maintenance).

Automotive Repair Specialist (Technical Portfolio)

- Executed advanced **electrical system diagnosis**, troubleshooting, and repair on complex modern and classic vehicle platforms.
- Performed full powertrain replacements, including custom **electrical integration, wiring harness fabrication**, and mechanical mounting solutions.
- Integrated high-performance audio systems, utilizing **Digital Signal Processing (DSP)** programming and integration with vehicle **CAN** bus networks.

TECHNICAL PROJECTS

Automotive & Performance Engineering/BMW Software

- Performed **ECU tuning** and software modifications to optimize engine performance, analyzing and adjusting engine management parameters using specialized diagnostic tools.

Robotics & Automation/Rubik's Cube Solving Robot

- Designed and programmed an autonomous robot using **embedded programming** to integrate computer vision for cube state analysis with a mechanical servo-controlled solving mechanism.

EDUCATION

Bachelor of Science, Electrical & Computer Engineering

Ohio State University | Columbus, OH
2019

TECHNICAL SKILLS

- Python, C/C++, Java
- Windows Linux
- TCP/IP Protocols
- Hardware, IT Support
- 3-D Printing
- Electric Systems
- Circuit Analysis

LICENSES & CERTIFICATIONS

- Assets, Threats and Vulnerabilities 2024
- Sound the Alarm: Detection and Response 2024
- Connect and Protect: Networks and Network Security 2024
- Foundations of Cybersecurity 2024
- Play It Safe: Manage Security Risks 2024
- Tools of the Trade: Linux and SQL 2024
- Google Cybersecurity Professional Certification