

Odin Cummings

EMC Test Engineer

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SUMMARY

Enthusiastic Electrical Engineering graduate committed to advancing in electromagnetic compatibility (EMC) testing. Hands-on experience with lab equipment and proficient in Python and Bash scripting, supporting automotive electrical systems testing. Strong analytical abilities drive troubleshooting and data analysis with great attention to accuracy. Passionate about collaboration within engineering teams, skilled in documenting processes and results for clarity and compliance. Eager to contribute to tech innovations and enhance automotive solutions through rigorous testing and validation practices.

EDUCATION

Bachelor of Science in Electrical Engineering

Stanford University 🎓 GPA: 3.8 📅 2025 📍 Stanford, CA

Coursework: Circuit Design, Electromagnetic Compatibility, Signal Processing, Digital Systems

TECHNICAL SKILLS

- **Programming Languages:** Python, Bash, JavaScript
- **Laboratory Equipment:** Oscilloscopes, Multimeters, Function Generators
- **Testing Standards:** ISO 17025, IEC 61000
- **Operating Systems:** Linux, Windows
- **Data Analysis Tools:** MATLAB, Excel, LabVIEW
- **Communication Protocols:** CAN, LIN, RS-232
- **Automation Frameworks:** Selenium, UnitTest
- **Adaptive Techniques:** Problem Solving, Analytical Thinking, Process Improvement
- **Project Management Tools:** Asana, Trello, Microsoft Project
- **Certification Standards:** SAE, ISO, ASTM

SKILLS

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|-----------------|---------------------------------|-----------------------|----------------------|
| • EMC Testing | • Multimeters | • Troubleshooting | • Software Support |
| • Python | • Automotive Electrical Systems | • Documentation | • Testing Procedures |
| • Bash | • Data Analysis | • Calibration | • Test Equipment |
| • Oscilloscopes | • Team Collaboration | • Root Cause Analysis | • Automation Scripts |

EXPERIENCE

EMC Test Engineering Intern

University Research Lab 📅 June 2025 - May 2026 📍 San Jose, CA

Supported testing operations focusing on electromagnetic compatibility for automotive electronics, encompassing various test phases from setup to documentation.

- Executed EMC emissions and immunity tests, rigorously documenting outcomes and ensuring industry standards compliance.
- Configured test systems, playing a key role in software readiness that contributed to accurate test outputs.
- Applied scripting skills to develop automation tools in Python, enhancing process efficiency in data gathering activities.
- Collaborated with multi-disciplinary teams, actively participating in problem-solving discussions to troubleshoot failures.
- Engaged in maintaining laboratory equipment, validating performance through careful calibration and regular checks.
- Documented lab procedures systematically, contributing to the integrity and traceability of test records.

Junior Electrical Technician

Tech Innovations Group 📅 January 2025 - May 2025 📍 Mountain View, CA

Strengthened foundational knowledge in testing and functionality of automotive electrical systems while collaborating within a technical team environment.

- Participated in hands-on tests of diverse automotive electrical systems, gaining valuable exposure to EMC principles.
- Assisted in laboratory setups by ensuring the proper configuration of critical test instruments and systems.
- Contributed to methodical recording of testing protocols and findings which honed organizational competencies.
- Engaged with peers, sharing insights aimed at refining testing methodologies for improved data outcome reliability.
- Familiarized with vehicle certification workflows, supporting initiatives deeply tied to automotive communication protocols like CAN and LIN.

- Gained technical proficiency in soldering and hardware rework, which bolstered practical skillsets in electronic repairs.

LEADERSHIP & AWARDS

- Dean's List, Stanford University (2024)
- Winner, University Hackathon (2025)

CERTIFICATIONS

- Certified in Python Programming 📅 2026
- Basic Electronics and Soldering Certification 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, IEEE Student Chapter (2024 – Present)
- Volunteer, Local Robotics Club (2025)

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST