

# Nikolai Lawrence

## Electrical Engineer

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### SUMMARY

Mid-level electrical engineer with over 4 years of experience specializing in unmanned vehicle technologies, particularly in autonomous systems and electronics design. Proven background in developing prototypes and implementing innovative solutions tailored for defense applications. Skilled in performing rigorous at-sea testing, ensuring systems operate under demanding conditions. Extensive experience collaborating within cross-functional teams to deliver technical documentation and schematic designs. Energetic approach towards expanding expertise in system engineering processes and cybersecurity further amplifies capabilities. Excited to leverage technical skills and knowledge in next-generation engineering solutions.

### EXPERIENCE

#### Electrical Engineer

Tech Innovations LLC 📅 June 2024 - Present 📍 San Diego, CA

Focused on the prototyping of electronic systems for unmanned vehicles within defense sectors. Played a key role in the hands-on development of next-generation systems that ensure mission readiness for maritime operations.

- Developed and prototyped electronic systems for unmanned vehicles, enhancing operational efficiency and mission readiness.
- Conducted functional testing and at-sea evaluations, ensuring systems met stringent performance specifications.
- Collaborated with cross-functional teams to create technical documentation and design artifacts for complex systems.
- Implemented power distribution and control systems, contributing to the integration of autonomous technologies.
- Engaged in numerous hands-on engineering tasks, improving system reliability through rigorous testing and validation.
- Leveraged knowledge of sensors and navigation systems to optimize autonomous vehicle performance.

#### Junior Electrical Engineer

Advanced Robotics Corp 📅 March 2022 - May 2024 📍 Tampa, FL

Worked on design projects focusing on navigation and machine vision for unmanned undersea vehicles. Contributed to DOD-related projects, emphasizing integrations of hardware with software components.

- Assisted in the design and testing of navigation systems for unmanned undersea vehicles, focusing on inertial navigation and GPS technologies.
- Contributed to the development of machine vision capabilities for object detection and avoidance in prototypes.
- Supported the integration of hardware and software components, ensuring seamless functionality of unmanned systems.
- Performed analysis and troubleshooting of electronic systems, leading to improvements in operational efficiency.
- Created detailed technical documentation and schematics, facilitating compliance and project handovers.
- Interacted with clients to gather requirements and present technical solutions, bolstering customer satisfaction.

#### Electrical Engineering Intern

Innovative Tech Labs 📅 June 2021 - August 2021 📍 Austin, TX

Gained invaluable intern experience while supporting various projects focused on control algorithms for autonomous vehicles. Participated actively in prototyping new features relevant to unmanned technology.

- Participated in developing control algorithms for autonomous vehicles, playing a part in reaching project milestones.
- Assisted in creating design documentation, ensuring adherence to engineering standards and practices.
- Conducted simulations और testing of electronic components, refining system performance and reliability.
- Collaborated with teams to prototype new features, enhancing functionality for unmanned environments.
- Gained hands-on experience with CAD software for designing electrical schematics and layouts.
- Presented progress updates weekly to senior engineers, integrating their feedback into ongoing work.

### LEADERSHIP & AWARDS

- IAT II Level Certification (2026)
- Certified Systems Engineering Professional (CSEP) (2025)

### EDUCATION

#### Bachelor's Degree in Electrical Engineering

University of California, Los Angeles 🎓 GPA: 3.8 📅 2024 📍 Los Angeles, CA

**Coursework:** Circuits, Control Systems, Robotics, Embedded Systems

CERTIFICATIONS

- IAT II Level Certification 📅 2026
- Certified Systems Engineering Professional (CSEP) 📅 2025

TECHNICAL SKILLS

- **Systems Engineering Tools:** MBSE, ROS Framework, Automation Software
- **Simulation Tools:** MATLAB, Simulink, LabVIEW
- **Modeling Software:** SolidWorks, CATIA, AutoCAD
- **Testing Protocols:** Electrical Testing, Functional Safety, Compliance Testing
- **Project Management Tools:** Trello, Asana, JIRA
- **Programming Languages:** Java, C++, C#
- **Documentation Standards:** IEEE Standards, ISO 9001, SPC Guidelines
- **Hardware Platforms:** Raspberry Pi, Arduino, FPGA
- **Sensor Technologies:** LIDAR, Cameras, Ultrasonic Sensors
- **Communication Protocols:** CAN Bus, Ethernet, Serial Communication

SKILLS

- |                                  |                            |                      |                            |
|----------------------------------|----------------------------|----------------------|----------------------------|
| • Autonomous Systems Engineering | • CAD Software Proficiency | • Control Systems    | • Machine Vision           |
| • Prototyping and Testing        | • Programming: C++         | • Signal Processing  | • Functional Testing       |
| • Technical Documentation        | • Programming: Java        | • Power Distribution | • Cybersecurity Knowledge  |
| • Systems Engineering Processes  | • Electronics Design       | • Navigation Systems | • Schematic Interpretation |

PROFESSIONAL AFFILIATIONS

- Society of Automotive Engineers (SAE) Member
- Institute of Electrical and Electronics Engineers (IEEE) Member

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST