

# ELIO KOKA

## ROBOTICS TEST ENGINEER

---

email: kokaelio@msu.edu | site: <https://kokael.io> | (248) 880-5549 | Relocating to San Francisco

---

### PROFESSIONAL SUMMARY

Versatile Systems Integration & Test Engineer with 5+ years of experience in hardware/software integration, automation, and complex test engineering. Skilled in Python, C++, LabVIEW, Linux, and technical writing. Adept in planning, implementing, and documenting test solutions for large-scale, multidisciplinary critical operations, and innovation to meet customer requirements. TS/SCI clearance eligible.

---

### PROFESSIONAL EXPERIENCE

#### ROBOTICS TEST ENGINEER

Wheel.me | Apr 2024 - Present

- Leading North American QA team, overseeing 8 engineers and 200+ robots across 15 sites, aligning with customer requirements to boost product uptime by 15% and reduce issues by 20%.
- Integrating and testing software/firmware with Azure HIL pipelines, reducing integration failures by 33%.
- Automated regression testing using Robot Framework and Python, halving manual efforts and accelerating issue detection by 35%.
- Upgraded LabVIEW test jigs for new and refurbished AGV systems, improving reliability.

#### ROBOT BRING-UP ENGINEER (HW/SW INTEGRATION AND VERIFICATION ENGINEER)

Carbon Robotics | June 2022 - Apr 2024

- Integrated advanced hardware/software/electrical/HVAC systems for large-scale agricultural equipment.
- Oversaw packaging, loading, and transportation of 5-ton equipment using cranes and forklifts, adapting to product and transportation requirements to ensure safe, efficient logistics.
- Attended high-value, customer-facing deployments for in-field testing and rapid troubleshooting.
- Identified and resolved design and assembly issues during prototype validation, improving production efficiency and product quality, from subassembly level to system level.
- Created automated verification processes in Python, reducing test time by 83% and saving 1,500+ engineering hours.

#### IT SUPPORT ENGINEER (SYSTEMS ENGINEER I)

TechSmith Corporation | May 2019 - Aug 2021

- Performed hands-on configuration and support of client machines, RAID arrays, and external processing units, ensuring seamless system integration across multiple sites.
  - Documented IT systems and automated OS/software deployments, enhancing reliability and efficiency in large-scale network environments.
- 

### CORE SKILLS & TOOLS

- Proficient in test engineering and systems integration of hardware, sub-systems, and full systems.
  - Experienced in planning, implementing, and documenting test solutions under schedule/cost constraints.
  - Skilled in Python, C++, MATLAB, LabVIEW, Jenkins, and Microsoft Office Suite.
  - Hands-on with oscilloscopes, soldering, DMMs in cleanroom/lab/manufacturing environments.
  - Strong in Linux (embedded, GPU clusters) for testing and development.
  - Excellent failure mode analysis and problem-solving for complex issues, including failure modes.
  - Proven ability to lead and execute large-scale, multidisciplinary, critical operations.
  - Demonstrate innovation and outstanding verbal/written communication skills in customer-facing roles.
- 

### EDUCATION

#### MICHIGAN STATE UNIVERSITY

Bachelor of Science, Computational Mathematics - Focus in Machine Learning  
2017 - 2022

#### ISTQB® CERTIFIED TESTER FOUNDATION LEVEL

2024