

Dylan Kangas

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dylankangas.github.io/portfolio

SUMMARY

Electrical engineer specializing in manufacturing automation and test equipment development, with hands-on experience delivering production-ready systems from concept through deployment. Proven track record improving process reliability and cycle time through data-driven engineering. Experienced in international supplier collaboration, equipment integration, and smart factory technologies across high-volume manufacturing environments.

EXPERIENCE

Test & Automation Engineer, Schneider Electric ***Jul 2024 – Present***

- Led development and integration of automated test equipment with international suppliers, ensuring successful deployment and regulatory compliance while reducing cycle time by 33%.
- Reduced high-risk manufacturing failure modes by over 75% for two consecutive years.
- Coordinated network and electrical infrastructure renovations (fiber, CAT6, 3-phase 480V) to support new manufacturing lines.
- Achieved site Smart Factory certification through robotic process automation, smart torque drivers, vision systems, and E-ink tags.
- Maintained legacy software and implemented a new manufacturing execution system site-wide.

Graduate Researcher, Michigan Technological University ***Apr 2023 – Apr 2024***

- Led development of robust autonomous surface vessels for the US Army and Navy.
- Established metrics quantifying degradation of LIDAR sensor data, published by SPIE.
- Trained multi-modal neural networks utilizing human feedback and data augmentation.

Laboratory Instructor, Michigan Technological University ***Sep 2021 – Dec 2023***

- Authored schematics and procedure manuals for undergraduate Circuits II & C/C++.
- Instructed creation & debugging of circuits using oscilloscopes and function generators.

Engineering Intern, Skilled Manufacturing Inc. ***Jun 2018 – Jun 2019***

- Designed line fixtures and improved processes providing over \$17,000 in savings.
- Created work instructions to improve the deburring process and reduce cycle time.

EDUCATION

MS, Electrical & Computer Engineering ***Apr 2024***
Michigan Technological University

BS, Electrical Engineering, Minor in Mathematical Sciences ***Apr 2023***
Michigan Technological University

SKILLS

Process automation, international supplier collaboration, Python, C/C++, Linux, high-speed interfaces (USB, SPI, I2C, UART), hardware validation and debugging, root cause analysis, statistical analysis, CPK, Gage R&R, PCB layout & design, SMD soldering, CAD (SolidWorks, Inventor), Mandarin Chinese

ACCOMPLISHMENTS & VOLUNTEER WORK

- Exhibited engineering projects at Open Sauce, a science & technology convention ***2024, 2025***
- Awarded full research scholarship for MS in Electrical & Computer Engineering ***Apr 2023***
- Volunteered in residential construction projects with Habitat for Humanity ***Jul 2025***