Michael Clancy

Systems & Robotics Engineer

Portfolio: https://clancyclancy.github.io/
GitHub: https://github.com/clancyclancy
Email: mclancy.dev@gmail.com

EXPERIENCE

Lockheed Martin – Mount Laurel, NJ
Systems Engineer II

- Developed and implemented advanced algorithms in C++, leveraging MATLAB for design and prototyping to ensure optimal system performance.
- Leveraged expertise in nonlinear control systems and stochastic state estimators to enhance system reliability and precision.
- Developed and deployed AI/ML solutions for machine learning classification, prediction, and time series forecasting.

Rowan University Robotics Lab – Glassboro, NJ
Graduate Researcher

- Operated and maintained 3D printers and CAD workflows to support rapid prototyping of custom robotic components
- Applied AI solutions to optimize novel robot designs for performance, efficiency, and manufacturability
- Conducted experimental and cadaveric testing using robotic surgical devices to validate control systems and assess clinical viability

Argo A.I. – Pittsburgh, PA
Data Scientist I

- Created and optimized datasets from vehicle sensors and simulation data to support autonomous driving model training and evaluation
- Monitored and improved model performance through data analysis, pipeline development, and cross-functional collaboration with engineering and safety teams

SKILLS

- **Programming & Scripting:** C++, Python, JavaScript, MATLAB
- **Software Engineering & DevOps:** SDLC, Agile, Scrum, Git, Jenkins, CI/CD, Code Reviews
- **Hardware & Prototyping:** 3D printing, CAD, Arduino, mechatronics, rapid prototyping
- **AI, ML & Computer Vision:** Real-time object detection, CUDA, OpenCV, TensorRT, YOLO, PyTorch

EDUCATION

M.S.E. Rowan University - Summa Cum Laude, GPA: 4.0

B.S.E University of Pittsburgh – Magna Cum Laude, GPA: 3.5