

Stephen Turner

Latex

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Robotics PhD candidate (defending May 2025) with publications in ICRA and IROS. Research focuses on visual-inertial SLAM for legged robots; comfortable shipping C++ on real hardware and writing papers in LaTeX.

PROFESSIONAL EXPERIENCE

Graduate Research Assistant | 2020 – Present

University of Michigan Robotics, Ann Arbor, MI

- First-authored ICRA 2024 paper on factor-graph SLAM, cited 31 times within 9 months of publication.
- Reduced drift on Mini Cheetah hardware trials from 2.4% to 0.6% of distance traveled over 1.2 km loops.
- Maintained 18,000-line C++/ROS2 codebase used by 7 lab members.
- Taught EECS 467 lab section to 22 students; received 4.8/5.0 evaluations.

Research Intern | Summer 2022

Boreal Robotics Lab, Pittsburgh, PA

- Prototyped event-camera odometry pipeline that ran at 312 Hz on Jetson Orin.
- Wrote internal tech report (28 pages, LaTeX/IEEEtran) that became a follow-on patent filing.
- Co-authored IROS workshop paper accepted on first submission.

EDUCATION

Ph.D. Robotics, University of Michigan, expected May 2025

B.S. Mechanical Engineering, summa cum laude, University of Lagos, 2019

KEY SKILLS

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|---|--------------------------|
| • LaTeX (IEEEtran, ACM, beamer, TikZ, PGFPlots) | • BibTeX and biblatex |
| • C++17 | • Python |
| • ROS2 | • GTSAM |
| • Ceres Solver | • PyTorch |
| • CUDA | • Git and GitHub Actions |
| • Linux (Ubuntu, embedded) | • MATLAB and Simulink |