

Kyle Tennison

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Education

Georgia Tech (In progress) B.S. Mechanical Engineering; GPA 4.0	2024 – 2027
Cañada College Transfer, Mechanical Engineering; GPA 4.0	2023 – 2024

Work Experience

Product Management Intern, Onshape (a PTC company) ◦ Neuro-Evolution and Reinforcement Learning R&D ◦ Rigidbody dynamic simulations	June 2025 – Present
Cloud, AI, Enablement & Solutions Intern, Ansys ◦ R&D of LLM & RAG workflows using LangChain ◦ Developed pre- and post-processing Python APIs for cloud-native simulation ◦ Integrated Onshape into cloud simulations	June 2023 – April 2025
Software Engineer Intern, Avarok Cybersecurity ◦ Quantum-resistant ultra-encrypted messaging service development in Rust & TypeScript	June 2024 – September 2024
Subsystem Engineer, FRC Team 5940 ◦ Led Climber system development in 2023 ◦ Head of Machining in 2022 ◦ Competed in World Championships (2022 & 2023); ranked top 10 worldwide both times	March 2021 – June 2023

Technologies

Languages: Python (7 yr), Rust (3 yr), C (4 yr), C++ (4 yr), TypeScript/JavaScript (3 yr)
Tools: SolidWorks (4 yr), OnShape (6 yr), Ansys (2 yr), KiCad (1 yr)

Projects

Linear-Elastic FEA Solver (Magnetite) ◦ Rust-based finite element solver for isotropic, linear-elastic materials	github.com/kyle-tennison/magnetite 🔗
Ragposium ◦ Free RAG (Retrieval Augmented Generation) search engine for academic papers published on arXiv	www.ragposium.com 🔗
Self-Balancing Robot (Franklin) ◦ ESP32-based, 3D printed self-balancing robot. Uses an accelerometer & PID loop	kyletennison.com/articles/franklin 🔗
Newtonian Navier-Stokes CFD Solver ◦ A time-stepping Computational Fluid Dynamics (CFD) simulator for incompressible Newtonian fluids.	github.com/kyle-tennison/navier-2d 🔗
OnPy ◦ An intuitive, open-source Python interface to Onshape APIs	github.com/kyle-tennison/onpy 🔗

Awards & Certifications

Georgia Tech ME2110 Design Award ◦ ME2110 competition robot won 1st place in Design ◦ Evaluated on: Design Implementation, Fabrication Approach, Design Ingenuity, Creativity, and Presentation Effectiveness	April 2025
Cañada College C.A. Engineering ◦ Certificate of Achievement in Engineering—awarded at commencement	May 2024
FRC Awards (Team awards) ◦ Industrial Design Award (2023) ◦ Excellence in Engineering (2023) ◦ Competition Winner: Monterey 2022, Monterey	March 2021 – June 2023