Kyle Tennison

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Profile

Pragmatic Mechanical Engineering undergraduate with a strong background in software development and computational problem-solving. Proven ability to lead and collaborate, with experience as an FRC subsystem lead and a long-term intern at Ansys.

Work Experience

Intern, Ansys *June 2023 – Present*
- Research and development of LLM & RAG workflows.
- Key contributor to Python project(s) for Ansys cloud platforms
- Integrated OnShape into cloud simulations

Intern, Avarok Cybersecurity *June 2024 – Sep 2024*
- Front-end development with Figma; UI/UX
- Tauri app development with Rust, TypeScript, and React

Subsystem Engineer, FRC Team 5940 *March 2021 – June 2023*
- Led Climber system development in 2023
- Head of Machining in 2022
- Competed in World Championships (2022 & 2023); ranked top 10 worldwide both times

Education

Georgia Tech *2024 – 2027*
(In progress) B.S. Mechanical Engineering; GPA 4.0

Cañada College *2023 – 2024*
Transfer, Mechanical Engineering; GPA 4.0

Awards & Certifications

- Cañada College Engineering Certificate
- FRC Awards (earned as a team):
  - Industrual Design Award (2023)
  - Excellence in Engineering (2023)
  - Competiton Winner: Monterey 2022, Monterey 2023, World Championship–Roebling Division 2022
- Georgia Tech ME2110 1st place Design Award (2025)

Projects

Linear-Elastic FEA Solver (Magnetite) *kyle-tennison/magnetite*
- Rust-Based finite element solver for isotropic, linear-elastic materials.

Ragposium *ragposium.com*
- Free RAG (Retrieval Augmented Generation) search engine for academic papers published on ArXiv.

AI Generated CAD (Polybrain) *polybrain.xyz*
- Parametric OnShape CAD generated with OpenAI models

Technologies

Languages: Python (6 yr), Rust (2 yr), C (3 yr), C++ (3 yr), TypeScript/JavaScript (2 yr)

Tools: SolidWorks (3 yr), OnShape (5 yr), Ansys (2 yr), KiCad (1 yr)