

Andrew Collignon

615-487-6808 | acollig1@vols.utk.edu

EDUCATION

University of Tennessee, Knoxville, Tickle College of Engineering

Knoxville, Tennessee

Bachelor of Mechanical Engineering , minor in aerospace engineering

May 2027

GPA: 3.34 / 4.00

Honors

Dean's List

Fall 2023 - Present

PROFESSIONAL EXPERIENCE

Envision Advantage, LLC, Nashville, TN

May – August 2024 | Mechanical Engineering Intern

- Designed ductwork and piping systems for hospitals and schools using Autodesk Revit.
- Performed load airflow calculations and mechanical air balance analysis to support HVAC system design.
- Collaborated with engineers to ensure designs met code and project specifications.

I.C. Thomasson Associates, Inc., a Salas O'Brien Company, Nashville, TN

May – August 2025 | Mechanical Engineering Intern

- Designed HVAC ductwork and piping systems for healthcare facilities and residential buildings.
- Created technical design sheets and construction documentation.
- Conducted on-site field visits to verify construction progress and gather system data for design updates.

LEADERSHIP

Ynot Robotics Club – University of Tennessee, Knoxville

Vice President | Oct 2023 – Present

- Participate in executive leadership meetings and guide organizational decisions.
- Secure sponsorships and funding to support club projects and competitions.

Design Lead | Jan 2023 – Present

- Led a team of 7 members through mechanical design reviews and iterations.
- Developed budgeting spreadsheets to allocate funds and track project expenses.
- Performed additive and subtractive manufacturing using lathes and mills.

Involvement

Clinostat Research Project – Lead Designer

- Led the design of a clinostat for a Mississippi State University research project studying microgravity effects on black soldier flies.
- Designed mechanical components and coordinated fabrication and testing.

Makers Club, University of Tennessee, Knoxville,

- Participated in individual and team engineering projects in the university makerspace, utilizing machining and fabrication tools.

SKILLS

Fusion 360, Revit 2024, MATLAB, Additive Manufacturing, Lathes, Mills, Python