Upper-Class Engineering Resume Example
Showcasing industry experience, internships/co-ops, and technical projects

Maximus B. Warrior

• (260) 555-5555 • mbwarrior@gmail.com • www.linkedin.com/maximuswarrior •

Professional Summary

Creative biomedical engineering student with experience in orthopedic implant design, design controls, and manufacturing support. Demonstrates a strong work ethic and a passion for developing innovative, patient-focused solutions through CAD, engineering analysis, and cross-functional collaboration.

Education

Indiana Institute of Technology — *Expected May 2027*
Bachelor of Science, Biomedical Engineering — Fort Wayne, IN
GPA: 3.54

Technical Skills

Siemens NX (CAD)	Root Cause Analysis	Design Controls	SolidWorks (CAD + Simulation/FEA)
Medical Device Design	Engineering Drawings	3D Printing	Equipment Validation (IQ/OQ/PQ)

Experience

Avalign Technologies — *Warsaw, Indiana*

Engineering Associate — *August 2025 – Present*

- Developed engineering models and drawings for manufacturing fixtures by translating production requirements into CAD designs, supporting reliable fabrication and ongoing production needs
- Collaborated with cross-functional teams to troubleshoot manufacturing issues through root cause analysis methods
- Provided engineering support for new and ongoing manufacturing projects to contribute to process improvements and production continuity in a regulated medical device environment

Manufacturing Engineering Intern — *June 2025 – August 2025*

- Designed and 3D-printed fixtures and tray-based kitting concepts to support manufacturing workflow and production studies
- Led a tray-based kitting optimization study for lathe and grinding operations by developing layout concepts, executing time studies, and analyzing performance data to quantify setup time reductions
- Supported equipment validation activities (IQ/OQ/PQ) by assisting with protocol execution, data documentation, and verification of acceptance criteria to ensure compliance and traceability

Projects

Senior Design Project — August *2026 – Present*

- Designed a modular femoral and tibial limb-salvage reconstruction system, defining customer needs, design inputs, and system architecture by competitive benchmarking, patent review, and clinical literature analysis
- Advanced design outputs including CAD models, engineering drawings, surgical technique, and cadaveric implantation documentation

Medical Device Design Project — August *2025 – May 2026*

- Collaborated with an 8-member team to design a comprehensive reverse shoulder arthroplasty system, modeling tray and liner components in Siemens NX and evaluating locking mechanisms, offset options, and Morse taper interfaces
- Produced engineering drawings and Design History File documentation, culminating in a simulated FDA 510(k) (4974) submission