CAMERON JORDAN

Boston, MA
Email: camj18personal@gmail.com

EXPERIENCE

Engineering Product Innovation Center (EPIC) – Boston University

Student Manufacturing Engineer | Boston, MA | 2023 – Present - Operate CNC mills and lathes independently to manufacture plastic and metal components for course infrastructure, student projects, and research use - Develop complete CAD-to-CAM workflows using SolidWorks and Fusion 360; perform setup, fixturing, tool changes, and post-processing - Iterate toolpaths and machining parameters to resolve failures during multi-axis machining of stainless steel components - Train and support students on CNC machining, manual machining, and fabrication workflows; serve as a go-to technical resource for machining strategy and project feasibility - Assist with machine maintenance and shop operations to ensure reliability and throughput

New Hampshire Ball Bearings

Engineering Intern | Peterborough, NH | Summer 2024 - Reverse-engineered and documented legacy in-house SQL and Microsoft-based manufacturing databases to support IT-led system replacement - Developed and piloted an Excel/VBA tool to automate heat-treat process reporting from shop-floor data - Trained on metallurgical quality control tools including abrasive cutting, polishing, and microscopy for corrosion and laser-etch analysis

---

PROJECTS

Impact-Based Energy Return Tester – Senior Design (Vibram)

- Designed and built a pendulum-based test rig to measure outsole energy return under impact loading, addressing limitations of standard insole-based drop tests
- Led mechanical design in CAD, including adjustable impact plate, pendulum arm, and shoe-mounting system
- Developed a vernier-indexed impact plate adjustment mechanism to maintain repeatable 90° swing while eliminating energy loss associated with slotted joints
- Designed a Hirth coupling to allow angular adjustment of the pendulum arm while preserving stiffness during impact
- Serving as primary machinist for the project, responsible for CNC manufacturing of tolerance-critical components including the Hirth coupling and impact base

---

SKILLS

Design & CAD/CAM: SolidWorks, Fusion 360, CAD-to-CAM workflows
Manufacturing: CNC milling, CNC turning, manual milling and turning, fixturing, multi-axis machining, CAM optimization
Fabrication: Waterjet, laser cutting, 3D printing
Data & Analysis: Excel, VBA, basic SQL exposure

EDUCATION

Boston University
Bachelor of Science in Mechanical Engineering
Graduation: May 2026
GPA: 3.46 / 4.00

Relevant Coursework: Instrumentation, Electromechanical Design, Manufacturing Processes, Additive Manufacturing, Senior Design

---

LEADERSHIP & SERVICE

First-Year Engineering Mentor
- Facilitated weekly group sessions focused on engineering ethics, academic success, and student support during first semester