Tom F. Bertram

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Relevant Coursework

Quality & Data Analysis
- Quality Control
- Statistical Analysis
- Modeling of Uncertainty
- Engineering Data Analytics

Processes & Operations
- Engineering Processes
- Production & Operations Management
- Supply Chain Design & Analysis
- Facilities Design

Modeling & Optimization
- Operations Research
- Discrete Event Simulation
- Network Flows

Economics
- Engineering Economics
- Microeconomic Theory
- Experimental Economics
- Money & Banking

Tools & Programming

- AMPL, FlexSim, Minitab
- Autodesk Fusion
- Python, MATLAB, R
- MS Office

Education

M.Eng., Industrial and Management Engineering
Rensselaer Polytechnic Institute
Troy, NY | expected Dec 2027

BS, Industrial and Management Engineering
Minor in Economics
Rensselaer Polytechnic Institute
Troy, NY | May 2027
GPA: 4.00

Private Pilot License
Rainier Flight Service
Renton, WA | June 2023

Honors & Awards

Alpha Pi Mu – Industrial Engineering Honor Society
Troy, NY | November 2025

Archimedean Society – 4.0 GPA Honor Society
Troy, NY | April 2024

Objective

Summer 2027 internship in quality, process engineering, or data analytics with an aerospace manufacturer. The goal is to combine industrial engineering training and hands-on manufacturing experience with a lifelong passion for aviation.

Summary

Industrial and Management Engineering student (BS May 2027, M.Eng. Dec 2027, 4.00 GPA) with a minor in economics and a strong foundation in quality control, statistical analysis, simulation, and operations research. Licensed private pilot since 2023. Fluent in English and German. Has designed and prototyped intralogistics equipment at KIT, worked alongside production teams in electronics manufacturing at Trenz Electronic, and trained in precision machining at Germany's national metrology institute. Equally at home on the shop floor and in the data, and eager to apply both to building aircraft.

Professional Experience

One-on-One Peer Tutor, Rensselaer Polytechnic Institute
Troy, NY | Sep 2026 – Present
- Tutor students in Deterministic Methods in Operations Research and Design & Analysis of Supply Chains

Research Student, Karlsruhe Institute of Technology (KIT)
Karlsruhe, Germany | May – July 2025
- Used Autodesk Fusion to design several variants of a modular handling station and a compatible vehicle charging station for the 'Circular Factory' intralogistics system
- Built a working prototype of each to support software development

Summer Intern, Trenz Electronic GmbH
Bünde, Germany | June 2024
- Supported production teams in testing and assembly of electronic modules
- Gained exposure to SMT assembly and quality inspection processes on the production line
- Shadowed employees across R&D, purchasing, planning, and warehousing for an end-to-end view of manufacturing operations

Summer Intern, Physikalisch-Technische Bundesanstalt (PTB)
Braunschweig, Germany | July 2022 & July 2023
- Trained in precision metalworking (machining, joining, and surface treatment) at Germany's national metrology institute

Portfolio

Design-to-build projects and metalworking pieces, showing both engineering design and hands-on fabrication skills:
bertram-family.com/tom/projects