Benjamin Gauck

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benji123abc.github.io

Mechanical Engineering student with experience in full-stack web, iOS development, CAD, and fabrication

EDUCATION

University of Edinburgh — B.S. Mechanical Engineering — 2025-2027
Transfer after study abroad

University of Southern California — B.S. Mechanical Engineering — 2023-2024
GPA: 3.72, Deans List

Abington Friends School — 2019-2023
GPA: 4.58

EXPERIENCE

Office Renovation - The Pluralistic School 1 — 2025
Small team construction work involving structural and electrical work

Formula SAE Team Member - USC — 2023-2024
Welding and project R&D. Independent and under leadership

Habitat for Humanity Volunteer - Los Angeles — 2024
On-site application of technical skills—independently and in groups

Prosthetics Design Lab Assistant - Penn State Abington — 2022
Research and testing 3D printing methods for rapid fabrication of prosthetic sockets

FIRST Robotics Team 4373 - Abington Friends School — 2018-2023
Lead programmer, team leader, teaching Java and OnShape
FIRST Autonomous Mode Programming Award

Tech Department Assistant - Abington Friends School — 2019-2022
Replaced and repaired computer hardware (laptop screens, power supplies, fans, etc)

PROJECTS + SKILLS

Real Estate Analysis Dashboard Website
Full stack web dev using React, Node.js, PostgreSQL; Implemented authentication, AI APIs, intuitive UX design

iOS Social Media Travel App + Backend
Full stack iOS dev using Swift, SwiftUI, and Vapor; Implemented authentication, extensive database

iOS Puzzle App + Matching Website
Front end iOS dev, published to App Store; Worked on marketing and system maintenance

Electric Gokart
Designed and fabricated steel frame, 3kW, 35mph; Learned OnShape, welding, fabrication, part sourcing

Custom Motion Capture Electronics
Complete arm tracking and mapping to virtual avatar; Arduino <–> Unity, PCB design, electronics design

CAD/CAM	Programming
OnShape	iOS Front End (Swift)
SolidWorks	Vapor
KiCAD	TypeScript
Inventor CAM	React
Design	Node.js
Illustrator	PostgreSQL + Prisma
Photoshop	Stripe API
Affinity Photo	OpenAI API
Affinity Designer	Java
Blender	Python
Sigma + Sketch	C# + Unity