

COOPER RANDEEN

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EDUCATION

California Baptist University (CBU)

BACHELOR OF SCIENCE IN BIOMEDICAL ENGINEERING (ABET Accredited)

Cumulative GPA: 3.92

Riverside, CA

Expected April 2027

RELEVANT WORK EXPERIENCE

ELECTRONICS LAB TECH

CBU Gordon and Jill Bourns College of Engineering

Riverside, CA

Sept 2024 – Present

- Operate and oversee Bambu, Prusa, and Formlabs 3D printers, ensuring high-quality output by performing maintenance and post-processing.
- Implemented print quality control processes by adjusting calibration, slicing parameters, materials, and print settings to optimize part designs for real-world production producing more than 4000 parts per year.
- Assess 3D and laser cutting part designs for manufacturability by making modifications that reduce cost and enhance speed and precision.

QUALITY CONTROL TECHNICIAN

AMP'D Entertainment

Yorba Linda, CA

Jun 2023 – Present

- Main project leader for RFID implementation, which resulted in faster return speeds and set a standard now adopted by numerous other companies.
- Assemble and configure professional AV equipment racks, integrating wireless systems, power distribution, and signal routing for reliable field deployment.
- Work as a live audio engineer, mixing sound to deliver clarity and quality while collaborating with crews to meet show demands.

PROJECT EXPERIENCE

ATTUNE – Co-Founder & Developer

2025

- Awarded 1st place Business Proposal in the 2025 UCLA BioHackathon as a team.
- Designed a machine learning model using Muse BCI to read EEG signals to assist neurodivergent students.
- Created a real-time feedback system for teachers via a custom desktop interface.

CUSTOM SUBMISSION & AUTOMATION SYSTEM – Rapid Prototyping Lab

2025

- Developed an automated submission workflow with a custom HTML/JavaScript form linked to Excel via Power Automate for managing more than 650 monthly 3D printing and laser-cutting requests.
- Automated email notifications and status tracking, including conditional logic for print completion and error handling, reducing manual follow-up and lab workers workload.
- Implemented dynamic logic to process multiple file submissions and ensure accurate, real-time updates.

PARAMETRIC PERISTALTIC PUMP & VASCULAR MODELING

2025

- Designed a fully equation-driven, parametric peristaltic pump, enabling rapid modification of geometry and performance achieving a 6.53L/min volumetric flow rate using 5/16in tubing.
- Designed and printed a 14 mm TPU PS-shaped vascular stent and SLA cerebral aneurysm model to compare flow rates before and after stent placement.

LEADERSHIP

CBU STUDENT SENATE – Engineering Representative

Sept 2025 – April 2026

- Sole representative for the College of Engineering in CBU's 25-26 senate body.
- Serve as a liaison between students and university leadership by gathering input from peers and presenting recommendations to administration.
- Lead initiatives to surface and address student concerns in engineering programs.

SKILLS & CERTIFICATIONS

Lean Six Sigma White Belt

Certified Solidworks Professional

AutoCAD 2D Design

FDM, SLA Printing & Laser Cutting

Dante Level 3

Python, C, SQL, MATLAB, FLASK, HTML, CSS, JS
