

MOEEN RAZZAQUE

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Electrical Engineer with Mechanical & Manufacturing Engineering Background

EDUCATION

HARVARD UNIVERSITY

Cambridge, MA

Bachelor of Science in Electrical and Computer Engineering; **GPA: 3.75/4.0**

Expected Dec 2026

Relevant Coursework: Circuits, Photonic Devices, Computer-Aided Machine Design, Computer Science, Material Mechanics, Micro-Electro-Mechanical Systems, Physics (I, II, & III), Economics, Humanitarian Design Engineering, Product Design (MIT)

Honors: Michael Dell Scholar (\$20K), AbbVie Award (\$5K), Kleiner Perkins Fellow, Exceptional Senior by Congressman Roy

WORK EXPERIENCE

AMAZON ROBOTICS

Boston, MA

Hardware Engineering Intern

May – Aug 2025

- Designed **8 fixture assemblies** for new manufacturing lines, **saving \$120K+** & reducing structural assembly time **by 20%**
- Prevented **3 critical failures & saved \$25K+** as interim technical program manager, presenting multiple times to leadership
- Led planning phase for new **\$2.6M infrastructure project**, coordinating between **7 internal teams/external contractors**
- Functioned as team lead, enduring multiple schedule changes & driving cross-functional meetings with senior stakeholders

FORMLABS

Somerville, MA

Manufacturing Engineering Intern

Jun – Aug 2023

- Designed & prototyped production-level fixture for Form 4 NPI; **saved \$100K+** by decreasing test time & improving yield
- Started Manufacturing & Mechanical Engineering effort that reduced printer validation **by 3hrs** using a new test print
- Led agile product lifecycle management on fixture with Jira/Propel; spoke & presented work directly with CEO & COO
- Executed GR&R tests (Python/SQL) & CMM tolerancing (GD&T); manufactured/assembled electromechanical devices

LEADERSHIP EXPERIENCE

ENGINEERS WITHOUT BORDERS (HARVARD CHAPTER)

Cambridge, MA

Design Engineer

Jan – Dec 2024

- Served as lead designer for **100K liter water retrieval kiosks** in Kenya, helping **reduce water procurement time by 30%**
- Engineered kiosk as per user needs, running finite element analyses & mechanical simulations for structural integrity
- Published technical documentation/engineering drawings & illustrated professional architectural sheets for contractors

HARVARD CONSULTING ON BUSINESS AND THE ENVIRONMENT

Cambridge, MA

Consultant

Aug – Dec 2024

- Advised **top energy company with \$40B+ revenue** for a new climate technology's commercial feasibility & GTM strategy
- Leading analyst in team of 7, curating physics/engineering recommendations, data analysis, & business case modeling

HARVARD SCHOOL OF ENGINEERING AND APPLIED SCIENCES (CS50)

Cambridge, MA

Teaching Fellow

Aug – Dec 2023

- Facilitated and evaluated a **~20 person class** on C, Python, SQL, JS, & object-oriented thinking for Harvard's largest course
- Achieved perfect rating overall for unique teaching style; personally advised students on internships, helping **secure 4 offers**

HARVARD UNDERGRADUATE MAKERS COLLECTIVE

Cambridge, MA

President

Aug 2022 – May 2023

- Negotiated and **directed \$10K+ budget**, innovated digital marketing strategy, & **increased club participation by 200%+**
- Spearheaded multiple new product roadmaps, fabrication techniques, & designs; launched electric split-flap display project

PROJECTS

ENGINEERING YOUTUBE CHANNEL

Jan 2025 – Present

- Shot & edited multiple videos garnering **~200K views** documenting different products from ideation to design to fabrication
- Engineered complex assemblies that rival existing products at reduced cost; received multiple sponsorship opportunities

SAN ANTONIO MUSEUM OF SCIENCE & TECHNOLOGY

June – Aug 2022

- Built machine learning exhibit scanner app with educational 3D models for **100K+ visitors** alongside UI/UX design intern

SKILLS

Software: Python, Front-End (HTML/CSS/JS), SQL, C/C++, MATLAB, LTSpice, PCB Design, FEA, COMSOL, Cadence

Shop: CNC, Manual Mill, Metrology (CMM), Lathe, Waterjet, Welding, 3D Printing (SLA/SLS/FDM), General Machining

CAD: SolidWorks, OnShape, Creo, Fusion 360, ProE, AutoCAD, Siemens NX, Revit