Krutik Shah

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Work Experience

Remote Internship – Keysight Technologies/ECEDHA　　　　　　　　　　05/2021 – Present

- Produce series of instructional videos on how to use Keysight's electronic test equipment.
- Contacting educational clients in Michigan to schedule virtual meetings with Keysight's engineers.
- Developing quizzes to market Keysight's equipment to industry professionals.

Assistant Manager – ECE Resource Center, A-Team　　　　　　　　　　09/2019 – Present

- Inventory of ECE resources, and servicing students and staff with these resources.
- Stocking the ECE labs and maintaining ECE lab equipment and resources.
- Helping the database team develop an online ordering system for such resources.
- General management of the Resource Center staff.

Assistant Manager – Fabrication Center, A-Team　　　　　　　　　　09/2020 – Present

- Handling 3D print requests from students and staff
- Maintaining and operating 3D printers
- Servicing a farm of 3D printers with Octoprint.
- Handling firmware and physical hardware upgrades.

Summer Computer Repair Technician – Hunterdon Central Regional High School　　06/2018 – 09/2019

- Imaging of Windows 10 computers.
- Manual installation/replacement of projectors.
- Wiring HDMI and ethernet through ceilings.
- Setting up audio and visual equipment in classrooms.
- Mass Chromebook enrollment on school domain.
- Assisting teachers and staff with technical difficulties.
- General troubleshooting of electronic and technical equipment.

Education

Bachelor of Science, Electrical & Computer Engineering　　　　　　　Expected 05/2023
Rowan University, Glassboro, NJ

- Current GPA: 3.72
- Organizations: Apprentice Engineering Team (A-Team)

Technical Projects

- Multi-oscillator PCB: Designed and created a PCB that included 3 oscillators summed into one with variable frequencies.
- Digital Combination Lock: Using an Intel FPGA (DE10-Lite), a combination lock was created using block design schematic in Quartus Prime
- UROV: CAD design and stress simulations of an Underwater Remote Operated Vehicle
- Quadcopter: CAD design of quadcopter drone, 3D print design, and fly using BetaFPV components
- Model Rocket with controlled trajectory (in-progress): designing flight controller with six-axis sensor controlling direction of rocket motor

Skills

- Programming
  - C++, HTML/CSS, Java, Python
- Electrical Testing and Power Equipment
  - Oscilloscopes, benchtop power supplies, DMMs, function generators, DAQ, Keysight BenchVue software
- Soldering (through-hole & surface mount)
- Circuit Simulation
  - LTSpice
- 3D Printing
- CAD Design
  - Autodesk Inventor, Solidworks
- PCB design
  - Altium Designer, DipTrace
- Video Production
  - Adobe Premiere Pro

Activities

FIRST Robotics Competition, Team 3637　　　　　　　　　　　　　11/2015 – 06/2019

- Mechanical and electrical team member; assisted in designing, assembling, & wiring robot
- Head of IT for 2 years, where I oversaw the team communications, managed team servers and inventoried electrical assets.
- Involved in several outreach opportunities, spreading the message of STEM.