

# Krutik Shah

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## Work Experience

### Undergraduate Researcher – Rowan AMMI

07/2022 - Present

- Building a novel DLP printer to create parts out of composite materials, with resin.
- Creating various forms of documentation on design, calibration and general usage of printer.

### Remote Internship – Keysight Technologies/ECEDHA

05/2021 – 11/2021

- Produce series of instructional videos on how to use Keysight's electronic test equipment, with Adobe CC products.
- Editing and updating informational Keysight posters used in educational and laboratory environments.

### Developer – Rowan ECE Web Dev Team

12/2021 – 05/2022

- Maintaining Ubuntu cloud server that hosts the website.
- Managing PostgreSQL database.
- Developing website with PyCharm, making updates with user suggestions.

### Assistant Manager – Rowan ECE Resource Center

09/2019 – 05/2022

- Inventory of ECE resources, and servicing students and staff with these resources.
- Stocking the ECE labs and maintaining ECE lab equipment and resources.
- Utilizing Django backend administration for inventory system.
- General management, training of the Resource Center staff.

### Assistant Manager – Rowan ECE Fabrication Center

09/2020 – 05/2022

- 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 – HCRHS

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 Rowan University, Glassboro, NJ

Expected 05/2023

- Current GPA: 3.63
- Member of: Robotics Automation Society, 3D Printing Club, Engineers Without Borders, Outdoors Club, South Asian Students Association
- Vice President of American Institute for Aeronautics & Astronautics, Student Branch, 09/2022 – 12/2022

## Skills

### Software

- C/C++, Verilog, HTML/CSS, LaTeX, MATLAB & Simulink
- EDA Tools: Altium Designer, Cadence Virtuoso, DipTrace
- SPICE Programs: LTSpice, Tina-TI
- Database Management (PostgreSQL)
- Linux (Ubuntu)
- CAD Design: Autodesk Inventor, SolidWorks, OnShape

### Hardware

- 3D Printers: FDM, SLA, DLP
- Electrical testing equipment: Oscilloscopes, Waveform Generators, Network Analyzers
- SMT Manufacturing

## Activities

### FIRST Robotics Competition, Team 3637

11/2015 – 06/2019

- Mechanical and electrical team member: assisted in designing, assembling, & wiring robot
- Head of IT: overseeing the team communications, managed team servers and inventoried electrical assets.