Krutik Shah

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Portfolio: www.krutikshah.net

Work Experience

Systems Engineer – Lockheed Martin RMS – SECRET Clearance — 07/2023 - Present

- Extensive use of Linux to operate and test the radar system.
- Extensive development of tools using MATLAB and Python to support integration & test efforts.
- Performing data analysis to assess system performance and troubleshoot software issues.
- Utilizing IBM Jazz and IBM Doors software to create test procedures based on requirements verification & traceability matrix.
- Interfacing with customers to demonstrate radar capabilities and performance.

Undergraduate Researcher – Rowan AMMI — 07/2022 – 06/2023

- Building a novel DLP printer to create parts out of composite materials, with resin and woven fiberglass.
- Creating various forms of documentation and media using LaTeX and Adobe CC on design, calibration and general usage of printer.

Remote Internship – Keysight Technologies/ECEDHA — 05/2021 – 11/2021

- Produce a 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.

Assistant Manager – Rowan ECE Resource Center, Fabrication 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.
- Handling 3D print requests from students and staff.
- Maintaining and operating 3D printers.
- Maintaining Ubuntu cloud server that hosts department resource website.
- Utilizing Django backend administration for inventory system.
- General management, training of the Resource Center staff.
- Servicing a farm of 3D printers with Octoprint.
- Handling firmware and physical hardware upgrades.
- Developing a website with PyCharm, making updates with user suggestions.
- Managing PostgreSQL database.

Education

Bachelor of Science, Electrical & Computer Engineering, Rowan University — 09/2019 - 05/2023

- 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 (AIAA), Student Branch, 09/2022 – 12/2022

Master of Science, Space Systems Engineering, Johns Hopkins University — 05/2024 - Present

- Current GPA: 4.0
- Expected graduation: May 2027

Skills

Software

- C/C++, Python, Verilog, MATLAB & Simulink
- HTML/CSS, LaTeX
- PCB design with Altium Designer
- Wireless networking, Wireshark
- Circuit Simulation & Design with LTSpice, Tina-TI, Cadence
- Linux

Hardware

- 3D Printers
- Electrical testing instrumentation operation
- Soldering with manual & semi-auto pick & place, hand soldering
- CAD Design with Autodesk Inventor, SolidWorks
- Raspberry Pi, Arduino development

Licenses/Certificates

- Part 107 Commercial Drone Pilot (01/2025 – Present)