Shristi Sharma

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Github: github.com/shristi-1808

Education

- **Dr. Akhilesh Das Gupta Institute of Technology and Management** New Delhi, India
  Bachelor of Technology - Electrical and Electronics Engineering; CGPA: 8.689 *August 2018 - August 2022*
  Courses: *Fundamental Circuit Theory, Analog and Digital Circuits, VLSI, Microprocessors and Microcontrollers*

Skills Summary

- **Languages**: AVR C, Lua, Python 3, SQL
- **Frameworks**: NumPy, Matplotlib, OpenCV, Sphinx
- **Tools**: Python 3, SQLite 3, Git, Arduino IDE
- **Platforms**: Windows, AVR 8-bit microcontrollers, x86, Raspberry Pi 3 Model B+
- **Soft Skills**: Technical Writing, Public Speaking, Project Management

Experience

- **Central Electronics Limited** On-site
  Training and Internship(Full-time) *Oct 2021 - Nov 2021*
  Assisted in the operation of Digital Axle Counters used High Availability Single Section Digital Axle Counter (HASSDAC) at North Central Railway.

Projects

- **CrazyOS**: Assisted in the development of the technical documentation using restructured text and Sphinx of a single-user, single-tasking, real mode operating system with a shell, line editor, and library consisting of various subroutines in 8086 assembly language. Tech: Python 3, Restructured text, Sphinx (Feb 2022 - May 2022)
- **Remote Controlled Rover**: Implemented a steering mechanism using Ackermann's steering equation for a remote controlled rover. Tech: C, AVR-C, Python 3, Arduino Uno, Raspberry Pi 3 Model B+, SSH (Aug 2021 - Jan 2022)
- **Pioneer 11 Particle Flux Data Visualizer**: Scrapped Goddard Space Flight Center's Space Physics Data Facility to extract particle flux data collected by Pioneer 11, stored it into an SQL database, and visualized using Matplotlib. Tech: Python 3, SQL (Jul 2020 - Aug 2020)
- **Monochromatic Shape Detector**: Developed a program in Python to detect monochromatic shapes in a noisy video. Tech: Python 3, OpenCV, NumPy (Aug 2020 - Oct 2020)
- **Brightness Control using PWM**: Controlled the brightness of an LED strip using PWM signal generated from a 555 timer. Tech: LTSpice XVII (Feb 2020 - Mar 2020)

Honors and Awards

- Scored 125 out of 160 in Duolingo English Test - November 2021
- Presented a report titled *Current State of Drones for Management of Power Systems* - October 2020
- Second Position at Inter College Basketball Tournament - October 2019

Volunteer Experience

- **Member of the Editorial Team, IEEE-ADGITM** New Delhi, India
  Assisted in the development of technical reports for Power and Energy Society (PES), and Women in Engineering (WIE) student chapters. *Jan 2021 - Jan 2022*

- **Tuition from Grade 1 to Grade 10 (ICSE Board)** Uttar Pradesh, India
  Tutored more than 40 students from grade 1 to grade 10 in-person free of cost enabling them to clear their examinations with flying colours. *Aug 2018 - Present*