

Shaswat Shukla

(505)-544-6192 • [linkedin.com/in/shaswat-shukla/](https://www.linkedin.com/in/shaswat-shukla/) • shuklashashwat482@gmail.com

EDUCATION

University of New Mexico | Bachelor of Science in Computer Science

Expected Dec. 2022

- GPA: 3.98/4.0
- Minor in Mathematics

EXPERIENCE

Research Intern (part of NASA ULI Program)

Aug. 2022 - Aug. 2022

Stanford University | Palo Alto, CA

- Project – “Vision Based Navigation in TurtleBots”
- **Recorded** images from TurtleBot cameras using Rosbag at 5 frames/sec
- **Collaborated** in a team of **3** to create a Convolutional Neural Network (CNN) model with an **accuracy** of **80%**
- Technologies used: **Python, TensorFlow, ROS, Linux**

Summer Research Intern

May 2022 - July 2022

Purdue University | West Lafayette, IN

- **IOT** based project – “Form + Function 4-D Printing”
- **Created** CAD model of a “smart” bicycle crank using **Autodesk Fusion 360**
- Externally **embedded** electrical components in bicycle crank for functionality using pick and place method
- **Developed** the webpage section of the Arduino program using **HTML, CSS** and Vanilla **JavaScript**

Computer Consultant

Aug. 2021 - Dec. 2021

University of New Mexico | Albuquerque, NM

- **Responded** to intermediate to complex PC **software** problems in accordance with service level requirement
- **Performed** computer hardware diagnostic, **troubleshooting operating systems** and internet connection issues
- Provided **assistance** and **training** on a wide variety of software to students and faculty on **Windows** and **Mac** computing environments

Summer Research Intern

May 2021 - July 2021

Purdue University | West Lafayette, IN

- Project- “**Algorithms** for Resilient Coordination and Situational Awareness in Swarm **Robotics**”
- Wrote **Python** scripts for simulating various task allocation algorithms used for assigning tasks to robots
- Used **NetworkX, NumPy, SciPy** and **Matplotlib** packages in Python to create and visualize coordination in networks of robots in a simulated environment
- **Created** and deployed a **MATLAB** simulation to analyze and plot the time taken by the robots to agree on tasks using consensus algorithms in a discrete time model

SKILLS

Strong – HTML, CSS, JavaScript

Familiar – Python, Java, C

Database/Frameworks/Libraries/Preprocessors – MySQL, React, Node.js, SASS, Bootstrap, Materialize CSS, Tailwind CSS

Technologies – Git, VS Code, AWS, Netlify, Vercel