

RUDRA GOEL

ANALOG IC DESIGN ENGINEERING INTERN | SUMMER 2024

Statement of Intent

I am a Computer Engineering major at Georgia Tech, equipped with a versatile skill set that spans various disciplines, from cloud computing architecture to 3D modeling and printing to circuit design and analysis. My overall goal is to leverage my expertise to contribute innovative solutions and technical prowess to your organization in the .

KEY SKILLS

3D Modeling – SolidWorks

(CSWPA)

Circuit Design & Analysis -

Communication Protocols in I2C, SPI & UART

Public Speaking & Presentation

CONTACT

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[LinkedIn Profile](#)

EXPERIENCE

U-GRAD RESEARCH ASSISTANT – NAJAFI LAB

FALL 2023 – 2024

- Designed custom circuitry and performed circuit analysis for LickOmeter rigs through SCRUM workflows at the Najafi Lab ([Lab Website](#)).
- 3D printed custom designed parts to interface between microscopes and mice.
- Operated 2-Photon Microscope equipped with Mai-Tai Lasers to image mouse brain experiencing audio & visual stimuli.

CAPSTONE: SENIOR DESIGN

FALL 2022 – 2023

- Full system design for Quadcopter Drone System; top-down schematic design to PCB fabrication, codebase architecture in C, mechanical design.
- [Website & Research Journal](#) | [Capstone Presentation](#)

DART INTERN – YPRIME

SUMMER - 2022

- Wrote Python scripts to manage workflows and aggregate data into graphical representations.
- Compiled, sorted, and formatted data from Azure Servers to MS Excel using SQL and VBA Programming

ROBOJACKETS – ELECTRICAL TEAM ARCHITECT

FALL - 2023

- Proficiently designed and implemented intricate electrical schematics using KiCAD, showcasing strong skills in schematic design and layout
- Conducted comprehensive circuit analysis, demonstrating expertise in communication protocols including I2C and SPI to ensure efficient data exchange within the team's projects.

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

2023 - 2027

Candidate for the **B.S. in Computer Engineering**; concentrations in Computing Hardware & Emerging Architecture (CHEA) and Signal & Information Processing (SIPs)

HIGHLIGHTED COURSES

- Quantum Mechanics I – Fall 2023