

# Jackie Jacket

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## Education

### **Georgia Institute of Technology | Atlanta, GA, USA**

May 20XX

Bachelor of Science in Computer Engineering, GPA 3.43/4.00

- *Relevant Coursework:* Circuit Analysis, Digital System Design, Programming for HW/SW Systems, Data Structures and Algorithms, VLSI Design w/ CMOS, Computer Architecture & RISC-V

## Skills

**Technical:** CMOS, VHDL/Verilog, PCB design, wire diagramming, state machine logic, static timing analysis, datasheet study

**Tools:** FPGA, oscilloscope, function generator, logic analyzer, multimeter, crimp, solder iron

**Programming:** Assembly, C/C++, Python, Java, RTL, RISC-V, MATLAB, Git

**Software:** Linux, KiCAD EDA, Solidworks, Quartus Prime, Arduino IDE, Android Studio, VSCode

**Languages:** English (fluent), Hindi (professional), Bengali (native)

## Experience

### **Georgia Tech Research Institute, Atlanta, GA**

May 20XX – Aug 20XX

*Robotics Intern*

- Spearheaded discussions of novel algorithm development and hardware customization, using 6 Thinking-Hat method, harnessing the best ideas from a team of 3 to successfully surpass existing literature in the field.
- Developed codebase for the automation of robot and firmware control using Python and Linux, allowing the robot to generate 3D models of plants.

### **Milwaukee Tools, Brookfield, WI**

Jun 20XX- Aug 20XX

*Electrical Engineer Intern*

- Led a 12-week prototyping initiative for a circuit inverter module using Saturn PCB Toolkit and Circuit Simulator, optimizing performance metrics and component integration.
- Engineered 6 distinct PCB module typologies in Altium Designer, incorporating advanced FET components to enhance efficiency and functionality.
- Achieved a 10% average reduction in PCB board area across all designs without increasing power consumption, improving overall design compactness and scalability.

## Projects

### **Stepper Motor Controller for Blood Shaking | Project Lead**

January 20XX – Present

*Completed Anti-Blood Coagulation (ABC) system development for Black prostate cancer patients*

- Overhauled use of old commercial stepper motor drivers in lab by creating robust contraption API and debugging product, allowing for longer experiment durations by 200%.
- Delivered final ABC System to research group using CAD design on Solidworks, electrical protoboard by hand, achieving 100% success rate during controlled testing.

### **RoboJackets | Electrical Sub-Team Member**

Sept 20XX – May

*20XX Built remotely operated Mars Rover – qualified for International Rover Challenge finals first-try*

- Completed all stages of the PCB development process for the arm of a robotic rover, including circuit design, layout, and testing, giving arm 6-DOF control with USB and UART communication capabilities.
- Coordinated design activities with firmware, manufacturing, and software teams, for systems integration in the rover within a \$18,000 cash constraint.

## Activities

### **Student Center Programs Council**

Sept 20XX – May 20XX

*Communication, Conflict Resolution, Planning, and Logistics Committee Member*

- Planned and organized campus events for ~3,000 attendees to improve social life on campus
- Determined necessary materials, developed budget proposals of up to \$5,000, and identified funding sources

### **GT Solar Racing**

Aug 20XX – Dec 20XX

*Electrical Team Member*

- Improved the Battery Management System's heat distribution with an optimized electrical map
- Hosted monthly team design reviews for electrical assemblies' systems & standards