

# Max Zhu

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## OBJECTIVE

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A self-motivated computer engineering student interested in computer systems and architecture and FPGA. Seeking an internship in Summer 2025 to gain real world experience to further build on my digital design, hardware-software integration, and low-level programming. Eager to contribute to innovative projects, determined to expand my knowledge, and excited to collaborate with a dynamic team of like-minded individuals to solve complex challenges.

## EDUCATION

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### GEORGIA INSTITUTE OF TECHNOLOGY

#### B.S. in Computer Engineering

Atlanta, GA

Expected Graduation *May 2026*

**GPA: 3.82/4.0**

**Major GPA 4.0/4.0**

- **Threads:** Computing Hardware and Emerging Architecture and Systems and Architecture
- **Relevant Coursework:** Digital System Design, Circuit Analysis, HW/SW Programming, Data Structures and Algorithms, Object Oriented Programming, Linear Algebra, Differential Equations

## EXPERIENCE

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### Georgia Tech School of Electrical and Computer Engineering

Atlanta, GA

#### Opportunity Research Scholar for Wireless Twin Digital Systems

*August 2024 – Present*

- Analyzing research papers on 5G, Wi-Fi 6, raytracing, wireless signals, and UAVs to optimize and develop twin digital systems
- Learning Sionna, networking, wireless signals, and radio environments to enhance the creation of wireless twin digital systems

### Georgia Tech Housing and Residence Life

Atlanta, GA

#### Resident Assistant

*August 2024 – Present*

- Provided support to a diverse group of students, helping them navigate academic and personal challenges
- Responded to emergencies and handled situations with professionalism, ensuring the safety and well-being of all parties

### Metro Healthcare

Vancouver, BC

#### IT Specialist

*November 2023 – January 2024*

- Connected digital infrastructure like POS systems, shared drives, website access, and patient database across multiple branches
- Created a website that displays the clinic's offerings and aided in scheduling appointments

## PROJECTS

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### Home Server

Atlanta, GA

*July 2023 – Present*

- Deployed a home server using Ubuntu Server's command line interface to replace many subscriptions
- Gained familiarity with reading documentation, using command line, and working with Docker and Git

### Custom Electronics Store

Vancouver, BC

*September 2020 – August 2023*

- Created and sold custom desktops, cables, and keyboards
- Repaired phones, laptops, and various other electronic devices

## LEADERSHIP AND EXTRACURRICULARS

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### HIVE

Atlanta, GA

#### Peer Instructor

*December 2023 – Present*

- Teaching end user's circuit skills, helping students operate complex machinery, and leading interactive workshops

### SILICON JACKETS

Atlanta, GA

#### Physical and Digital Design Member

*August 2024 – Present*

- Used Verilog to design and verify circuits
- Collaborated with team members to optimize and implement test circuits

### GEORGIA TECH INSTITUTE OF ELECTRICAL ENGINEERS

Atlanta, GA

#### Member

*August 2023 – May 2024*

- Helped virtually and physically assemble a VEX robot for a competition
- Created an app with a team using React to aid in competition organization

## SKILLS

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**Software:** Java, Python, C, C++, VHDL, Django, Ubuntu, Verilog, MatLab, Quartus

**Hardware:** Oscilloscopes, Digital Circuits, PCB Design, Surface Mount Components, Through Hole Components, Arduino