

AJ PFEIFER

RIT Student

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ajpfeifer13

OBJECTIVE

- In search of a 2026 Summer/Fall Internship or Co-op in the computer engineering field. Excited to apply knowledge of coding and hardware in real world settings, with a strong interest in FPGA Engineering, AI Hardware, Hardware Security and Firm/Soft/Hardware Development.

EXPERIENCE

Rotobot AI

Software Engineering Co-Op

September 2025 – December 2025

- Designed a Python based data pipeline utilizing multiple APIs to generate structured insights for team/player analytics
- Built a Databricks powered system in Python to find statistical trends in player data and make market evaluations based on stats
- Developed LLM enhanced workflows for the generation and oversight of articles and analytical reports using LangSmith, Tavily, Mixpanel, and Power BI

METCAR

Computer Engineering Intern

June 2025 – August 2025

Ossining, NY

- Conducted research on AI integration within CNC manufacturing environments, documentation CAD to lathe workflows and identifying opportunities for automation and efficiency
- Developed process documentation, leveraging AI-based translation tools to create bilingual training materials

PROJECTS

RotoNHL

November 2025 – December 2025

- Created a daily data collection pipeline that called from multiple API sources to get statistics regarding player and team stats, as well as player and team information, stored in DBeaver
- Utilized pulled data to create insights by ranking players or teams in categories by position, stats, skating zones and more

Buy Low – Sell High

September 2025 – October 2025

- Created a system in Python to find players in fantasy football who were Buy Low or Sell High candidates using Databricks

MIPS Processor

January 2025 – May 2025

- Utilized VHDL coding skills and Vivado Software to build the individual parts of a MIPS Processor
- Tested all entities of the MIPS Processor using TestBenches to ensure quality

EDUCATION

B.Sc Computer Engineering

Rochester Institute of Technology

Relevant Courses

Computer Science I and II

DSD I and II

Assembly and Emb. Prog.

Digital Electronics

Intro to software Engineering

Circuits I and II

SKILLS

Programming Languages

Java

VHDL

Python

Assembly

C

C++

TypeScript

HTML

CSS

Software

ModelSim

LTSpice

Quartus Prime

Vivado

DBeaver

Mixpanel

Databricks

LangSmith

Keil uVision

Power BI

Hardware

Basys 3 FPGA Board

FRDM-KL05Z Board

ACTIVITIES

Pi Kappa Phi Fraternity

President

April 2024 - Ongoing

- Managed all chapter operations for a fraternity of 50+ members, serving as the primary representative to university officials and national headquarters

Bee Keeping Club

Outreach Coordinator

October 2023 – Ongoing

- Collaborated and communicated with other clubs, organizations, and local businesses to host events together