

Benjamin Willey

Seeking a 2023 CPU design Summer Internship

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📍 Dallas, TX



EDUCATION

Texas A&M Computer Engineering

Junior, Class of 2024

GPA

3.85 / 4.0

Highland Park High School

Graduated 2020

GPA

4.04 / 5.0

SKILLS

Hardware

Verilog

Computer Architecture

ARMv8 ISA

Memory/Caching

Product Design

Software

C++

Python

Data Structures

Algorithms

Working on AWS DevOps

STUDY ABROAD

Computer Architecture Summer 2022

Swansea Wales

Computer Architecture classes ECEN 350 and 469 with A&M professors

- Exploring the UK was awesome, I saw lots of castles and beautiful beaches in Wales.
- I made friends with other computer engineers from my university.
- While in Cambridge, I toured and attended lectures at ARM headquarters.

ARM Processor

ECEN 469 project

In my advanced computer architecture class, I designed a single cycle processor in verilog. It ran 32 bit ARMv8 instructions from a DRAM verilog module.

- Having two professors for my lab improved my verilog skills and debugging.
- I Learned to use GTK wave to debug complex verilog projects.

LEADERSHIP EXPERIENCE

Captain of VEX Robotics Team

Highland Park High School

- This taught me a lot about product design and documentation, as engineering notebooks were a big part in scoring the teams.
- I learned how to make my team members more autonomous. I found teaching them needed skills, then giving them an abstract task worked better than telling them exactly what to do.
- Early on, I learned of accountability, if something wasn't done on time or right it usually fell on me.

Eagle Scout

My project benefited Texas Rustlers, an animal rescue. I replaced a countertop, repainted two rooms, and installed hand sanitizer stations throughout the rescue.

- This was a different leadership experience since it dealt with leading my friends and family. It was hard to motivate my friends at times, but they respected me when I worked alongside them.

WORK EXPERIENCE

Backserver

The Henry(restaurant in Dallas)

📅 2021

I busbed tables and assisted kitchen and wait staff. Having to assist in so many aspects of the restaurant helped develop my team work skills. I worked mainly off tips, which incentivized me to work hard.