

Benjamin Willey

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OBJECTIVE	Seeking an internship for Summer 2023	
EDUCATION	Texas A&M University (TAMU) , College Station, Texas <i>Bachelor of Science in Computer Engineering</i> , May 2024 Major GPR: 3.857, Cumulative GPR: 3.850 <i>Pursuing minor in Math</i>	
RELEVANT COURSEWORK	CSCE 221 , Data Structures/Algorithms ECEN 350 , Computer Architecture ECEN 214 , Circuit Theory CSCE 222 , Discrete Math	CSCE 313 , Intro to Computer Systems ECEN 469 , Advanced Computer Architecture ECEN 248 , Digital System Design CSCE 120 , Program Design and Concepts
TECHNICAL SKILLS	Software C++ Threading Algorithms Data Structures Python Hardware Verilog Computer Architecture Circuits ARM ISA Digital Logic Design	
PROJECTS	ARMv8 Processor <i>ECEN 469, Summer 2022</i> <ul style="list-style-type: none">• I designed a single cycle ARM processor in Verilog. It ran 32 bit ARMv8 instructions from a DRAM Verilog module.• Having two professors for my lab improved my Verilog and debugging skills.• I learned GTK wave for verification and to debug complex Verilog projects. Multithreaded Database Using TCP/IP <i>CSCE 313, Fall 2022</i> <ul style="list-style-type: none">• This program sent files or data requests from a server to a client.• I learned that networking is more configuring, than manually building packets.• This improved my threading/mutex skills since there was a large critical section. I also had to make a buffer data structure to dispatch the requests to the threads correctly.	
STUDY ABROAD	Swansea, Wales <i>Computer Architecture, ECEN 350 & 469, Summer 2022</i> <ul style="list-style-type: none">• Exploring the UK was awesome, I saw lots of castles and beautiful beaches in Wales.• <i>I made friends with other computer engineers from my university.</i>• While in Cambridge, I toured and attended lectures at ARM headquarters.	
LEADERSHIP	Vex Robotics Team, Highland Park High School Team Captain <ul style="list-style-type: none">• 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.• This taught me a lot about product design and documentation, as engineering notebooks were a big part in scoring the teams. BSA, Troop 82 <i>Eagle Scout, Fall 2019</i> <ul style="list-style-type: none">• 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.	
ACTIVITIES	Aggie Coding Club Phi Delta Theta	