Benjamin Willey
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OBJECTIVE	Seeking an internship in software engineering for summer 2023.

EDUCATION

Texas A&M University (TAMU), College Station, Texas
Bachelor of Science in Computer Engineering, Graduating May 2024
GPA: 3.826
Pursuing minor in Math

RELEVANT COURSEWORK

CSCE 221, Data Structures/Algorithms	**CSCE 313**, Intro to Computer Systems
ECEN 350, Computer Architecture	**ECEN 469**, Advanced Computer Architecture
ECEN 214, Circuit Theory	**ECEN 248**, Digital System Design
CSCE 222, Discrete Math	**CSCE 120**, Program Design and Concepts
CSCE 331, Software Engineering	**ECEN 325**, Electronics

TECHNICAL SKILLS

Software   C++   Threading   Linux   Processes   Data Structures   Python

Hardware   Verilog   Computer Architecture   ARM ISA   Digital Logic Design

PROJECTS

ARMv8 Processor
ECEN 469, Summer 2022
- Designed and implemented a single cycle ARM processor in Verilog running 32-bit ARMv8 instructions from a Verilog memory module.
- Learned GTK wave for verification and debugging.

Multithreaded Database Using TCP/IP
CSCE 313, Fall 2022
- Developed C++ client server program to send files over a network.
- learned to configure the network using sockets.
- Improved my threading and mutex skills.

STUDY ABROAD

Swansea, Wales
Computer Architecture, ECEN 350 & 469, Summer 2022
- Experienced foreign culture and history touring castles and museums.
- Attended lectures at the ARM headquarters when in Cambridge.
- Better access to professors improved my learning.

WORK EXPERIENCE

Ventex Oil and Gas
Summer 2019
- Built a workstation desktop for the needs of the geologists.
- Organized moving files to a new office.

LEADERSHIP

Vex Robotics Team, Highland Park High School
Team Captain
- Lead a team of 5 to design and build a robot to compete in tournaments.
- Taught me to properly document product design using engineering notebooks.

Eagle Scout, Troop 82
Fall 2019

ACTIVITIES

Aggie Coding Club
Phi Delta Theta

I enjoy hiking, camping, skiing and biking.