

**Benjamin Willey**

Dallas, TX • (469) 600-4725 • ben@wwilley.com • <https://benjwilley.github.io/>

<b>OBJECTIVE</b>	Seeking an internship in Systems Software Engineering for Summer 2023	
<b>EDUCATION</b>	<b>Texas A&amp;M University (TAMU)</b> , 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>	
<b>RELEVANT COURSEWORK</b>	<b>CSCE 221</b> , Data Structures/Algorithms <b>ECEN 350</b> , Computer Architecture <b>ECEN 214</b> , Circuit Theory <b>CSCE 222</b> , Discrete Math	<b>CSCE 313</b> , Intro to Computer Systems <b>ECEN 469</b> , Advanced Computer Architecture <b>ECEN 248</b> , Digital System Design <b>CSCE 120</b> , Program Design and Concepts
<b>TECHNICAL SKILLS</b>	<b>Software</b> C++   Threading   Linux   Processes   Data Structures   Python <b>Hardware</b> Verilog   Computer Architecture   ARM ISA   Digital Logic Design	
<b>PROJECTS</b>	<b>Multithreaded Database Using TCP/IP</b> <i>CSCE 313, Fall 2022</i> <ul style="list-style-type: none"><li>• Developed C++ client server program to send files over a network.</li><li>• learned to configure the network using sockets.</li><li>• Improved my threading and mutex skills.</li></ul> <b>ARMv8 Processor</b> <i>ECEN 469, Summer 2022</i> <ul style="list-style-type: none"><li>• I designed and implemented a single cycle ARM processor in Verilog running 32-bit ARMv8 instructions from a Verilog memory module.</li><li>• I learned GTK wave for verification and debugging.</li></ul>	
<b>STUDY ABROAD</b>	<b>Swansea, Wales</b> <i>Computer Architecture, ECEN 350 &amp; 469, Summer 2022</i> <ul style="list-style-type: none"><li>• Experienced foreign culture and history touring castles and museums.</li><li>• I attended lectures at the ARM headquarters when in Cambridge.</li><li>• Better access to professors improved my learning.</li></ul>	
<b>WORK EXPERIENCE</b>	<b>Ventex Oil and Gas</b> <i>Summer 2019</i> <ul style="list-style-type: none"><li>• I built a workstation desktop for the needs of the geologists.</li><li>• Organized moving files to a new office.</li></ul>	
<b>LEADERSHIP</b>	<b>Vex Robotics Team, Highland Park High School</b> <i>Team Captain</i> <ul style="list-style-type: none"><li>• Lead a team of 5 to design and build a robot to compete in tournaments.</li><li>• This taught me to properly document product design using engineering notebooks.</li></ul> <b>Eagle Scout, Troop 82</b> <i>Fall 2019</i>	
<b>ACTIVITIES</b>	<b>Aggie Coding Club</b> <b>Phi Delta Theta</b>  I enjoy hiking, camping, skiing and biking.	