DALLIN J DAHL

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EDUCATION

Brigham Young University Apr 2022
Bachelor of Science, Computer Engineering
Minor: Math & Computer Science
GPA: 3.46

4th Place Google Tech Challenge Feb 2020
National Merit Scholar Mar 2016

Relevant Coursework

Digital Systems Design	Circuit Analysis & Design	Data Structures
Computer Architecture	Embedded Programming	Signals & Systems
Linear Algebra	Computational Theory	Ordinary Differential Equations
Multivariable Calculus		

TECHNICAL SKILLS

UNIX C Stack	Linux	Git	Go
SystemVerilog	Circuit Design	Stack-Based Programming	Bash
Embedded Programming	LTI System Design	Metaprogramming	C++
Arduino	Functional Programming	Dataflow Programming	Java

EXPERIENCE

Research Assistant Jan 2021 – Present
Brigham Young University *Provo, UT*
- Document Artix7 family FPGAs to enable open source toolchain

Software and Hardware R&D Intern Sep 2018 – Apr 2019
VisualCue Technologies LLC *Lindon, UT*
- Developed custom protocol to utilize 2 Arduinos in proof of concept
- Expedited implementation processes by 1 hour with custom utilities

Representative Sep 2016 – Aug 2018
The Church of Jesus Christ of Latter-day Saints *Lima, Peru*
- Developed web-scraping application to increase process efficiency by 2 hours weekly
- Designed data collection UI to minimize input errors and maximize input volume
- Trained and motivated team of 16 representatives to increase performance and commitment

Automated Quality Assurance Intern June 2014 – Aug 2016
EasyPower LLC *Tualatin, OR*
- Developed domain-specific language to implement diagram components with minimal error
- Increased reliability and coverage efficiency of test suite by 15%

PROJECTS

Dev Feb 2020 – Present
- Design port-mapped stack-based virtual machine with extensible peripheral support.
- Design hosted minimal operating system and compiler

GX Apr 2020
- Implemented plumbing utility à la Plan9 in C with X-macro based static configuration