kyletingey

computer engineering

about

2089 E. Donegal Cir.
Salt Lake City, Utah
84109

(302) 545-8051
kyle.tingey@gmail.com
github: ktingey/porfolio

programming

8000+ lines:
C, C++
5000+ lines:
C#, Java
in progress:
Perl, Python

skills

GitHub, FPGAs, Eclipse, Emacs, LaTeX, Minimal PCB Layout, JSON, XML, OOP,Embedded Systems, Database (SQL, MySQL), Visual Studios, Data Structures

experiences

Present — **AirU, University of Utah** — Research Assistant
Collaborated in designing a low-cost air quality station using a TI-RTOS microcontroller. Primary focus includes programming sensors and integrating a IoT solution for gathering data.

2016 — **Center for Bioinformatics and Genomic Systems Engineering** — Intern
Advanced computational pipeline development as a part of a comprehensive study to investigate various DNA assembly methods for Next Generation Sequencing transcriptome data using the Pittsburgh supercomputer center.

2015 — **Historic Wendover Airfield** — Freelance
Constructed a unique kiosk app on permanent display in the museum lobby for the purpose of preserving the past and educating the future.

projects

2016 — **Memory Controller** — verilog
Implemented a synchronous SDRAM memory controller on the Nexys3 FPGA to output text on a monitor from a keyboard.

Gigapixel Camera Automation — C++
Designed, built and programmed a way to automate capture of panoramic photos using an ARM Cortex-M and robotics.

Database Web App — MYSQL, Java, JSP
Devised a custom Yelp/TripAdivor-like application from a self-designed relational diagram and schema to a working html webpage.

organizations

Present — **Engineers Without Borders** — Member
Promoted ingenuity on a decade-long project to bring clean water to the Rong Village in Cameroon.

Utah Chocolate Society
Boosted membership by 50% through social media, augmented start-up support through organizing the treasury

recognition

2015 — **Goldman Sachs Hackathon** — Winner
Awarded 1st out of 50 contestants. Led a team in 12 hour challenge. Utilized pollution data set to find patterns and anomalies in the data, as well as created a visualization tool. Acknowledged having most unique solution.

education

Dec 2017 — **B.S.** Computer Engineering — Salt Lake City, UT
University of Utah GPA: 3.5