Luke Gair

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Skills

- C++
- C
- JavaScript

- CSS
- HTML
- VHDL & FPGA's

- Matlab
- LTspice & Eagle
- Microsoft suite

Education

Simon Fraser University   2015 – 2021

- Faculty of Applied Science
  BASc Engineering Science

- Majoring in Computer Engineering
  Minor in Computer Science

Projects

Tokenizer   2017
Engineering Software Design & Analysis in C++

- Designed and debugged a tokenizer that breaks down strings to their individual components
  Tokens were then classified
- Utilizing the previous methods, the program takes string input including expressions and stores
  them in a <u>binary search tree</u>, the final code was then able to correctly evaluate expressions
  based on relevant conventions

Personal Servers   2016 – Present
Objective: Network both servers for a more efficient workflow

- Sunfire X4150
  - Modified to work as a NAS
  - Planned host for personal web sites in the future
  - Networking with the Dell is currently in progress

- Dell PowerEdge 1950
  - Replacement of Raid Card battery and several drives is essential
  - Computational server takes advantage of its dual quad core Xeon processors for physical modeling

Electronic D6 Die Assembly   2015

- Constructed an electronic die from detailed plans and schematics to display a random integer
  between 1 and 6 on an array of LED's
- Utilized lead based soldering skills to assemble small electronics on the PCB board

Interests & Activities

- Vancouver Youth Choir   2015 – 2017
- Microsoft Coding Competition   2017
- British Columbia Boys Choir   2007 – 2015
- Trumpet   (<u>2009 BC Provincials 1st place</u>)
- Piano   Royal Conservatory of Music Grade 8

Work Experience

Dishwasher, Horizons Restaurant, Burnaby, BC   2017

- Intense environment demanded full focus
- Responsible for keeping the kitchen stocked with clean dishes and equipment in a timely
  fashion

Camp Counselor, Salvation Army, Gibsons, BC   2014 - 2017

- Collaborated with co-workers to provide quality activities and support to children throughout
  the day
- Practiced <u>conflict resolution</u> skills in <u>high risk situations</u> such as talking down suicidal children
- Critical Awareness of children and their immediate surroundings