

**Scott Skrobel**  
<https://github.com/skeeter2100/>

Email : [scott.skrobel@gmail.com](mailto:scott.skrobel@gmail.com)  
Mobile : +1-303-472-6281

## EDUCATION

---

- **University of Colorado Denver** Denver, CO  
*B.S. Electrical Engineering* *Aug. 2017 – May. 2020*

## PROJECTS

---

- **Big Asset Tracker:** Developed firmware and designed the electronic hardware for a GPS tracking device as a senior design capstone project.
- **Financial Analysis Portfolio:** Designed a personal financial portfolio to pull data from an API utilizing historical prices and update real time tracking data. Used python to load the data into a financial model in order to conduct personal analysis and evaluate positions. Created a GUI with TKinter and visualized the data with Matplotlib.
- **Time-Series Statistical Forecast:** Applied Autoregressive integrated moving averages (ARIMA) and Conditional Heteroskedasticity methods (ARCH) to model a change in variance or price of the CBOE volatility index in the stock market. Explored the data with python and used the pandas library to clean, normalize, and split the data.
- **Deep Learning:** Created a convolutional neural network base image classification algorithm using Tensorflow
- **Embedded Firmware Design:** Designed a single-cycle processor and implemented a limited MIPS CPU in verilog and simulated with machine code.

## SKILLS

---

- **Programming Languages:** C/C++, R, Python, Java, Assembly, Verilog, LaTeX
- **Software:** OrCad/PSPICE, Quartus /Multisim, MatLab/Simulink, UNIX/Bash, SSH, git
- **Analog Circuit Design:** Experience in designing analog circuits operating at high frequencies with both passive and active components including OP-AMPS and transmission lines.
- **Embedded Systems Design:** FPGA testbench simulation and embedded systems design experience programming microcontrollers and PIC debuggers.

## EXPERIENCE

---

- **Garlic Knott** Denver, CO  
*Hospitality* *April 2013 - December 2018*
  - **Line Cook:** Back of the house employee. Prepped food for service and cooked menu items in cooperation with the rest of the kitchen staff.
  - **Customer Service:** Delivery Driver while assisting front of the house with planning, coordination, and organization.
- **The Club at Ravenna** Littleton, CO  
*Golf Course Management* *April 2016 - Oct 2016*
  - **Golf Course Maintenance:** Worked closely with the Assistant and Golf Professional on the outside golf operations to assure a smooth transition for members and their guest around the club.
  - **Valet:** In charge of servicing club members cars.
- **DC Home Builders Inc** Denver, CO  
*Construction* *May 2012 - April 2016*
  - **Electrician:** Worked in residential homes.