

Spencer Kulbacki

BS Electrical Engineering Technology (ABET accredited) • RIT class of 2019






Computer Science House Member 2014-Present • Executive Board: R&D

[linkedin.com/in/skulbacki](https://www.linkedin.com/in/skulbacki) • github.com/akaStanley • kulbacki.org






Graduation: May 2019 – Seeking full time position in Electrical/Hardware/Controls Engineering



PERSONAL PROJECTS & EXPERIENCE

-  **Automotive Electronics Manufacturing Study Abroad**
In-depth research into automotive electronics quality, reliability; excursions to car manufacturing facilities in Germany.
-  **Custom NFC Door Lock HID Reader**
Created custom PCB & daughter board for POE powered HID readers using the PocketBeagle. See GitHub for details.
-  **Research & Development Director**
Organizing seminars & assisting with technical projects; encouraging members to learn new skills and gain experience.
-  **Simulating a vehicle in BeamNG.Drive**
Building the mechanics of a car from scratch in a real-time soft body physics simulator. See GitHub for details.
-  **Custom Arduino with Bluetooth and RGBW LED strip control**
Designed and produced an Arduino clone featuring an Atmel 328pb, Bluetooth, & power MOSFETS for LED strip control.

EMPLOYMENT

-  **iPhone Hardware System Electrical Engineering Co-Op - APPLE** • Summer/Fall 2018
Working on architecture, integration, validation, and debug of future products.
-  **Space & Defense Digital Engineering Co-Op - ANAREN MICROWAVE INC.** • Spring 2017
ESD Class 0 work, CAD, 3D printing, VHDL, designing wiring harnesses & debugging space flight digital hardware.
-  **Hardware Design / Embedded Systems Engineering Co-Op - THIMBLE.IO** • Summer 2016 • Summer 2017
Educational Arduino kits; Product design, PCB prototyping, testing, debugging, and technical writing; Git, Arch Linux.
-  **IT Service Desk Representative - R.I.T.** • August 2014 – May 2016 during schoolyear
Troubleshoot hardware and software issues via phone, email and walk-up interaction for students, faculty, and alumni.
-  **Administrative Clerk/Database Technician - TOWN OF HANOVER NH** • Summer 2014 • Summer 2015
Wrote database to digitally archive documents, user-friendly data entry & search interface and a detailed user manual.

LanguagesC • C++ • VHDL • Python • Lua

SoftwareKiCAD • Autodesk Inventor • Fusion 360 • Eagle • Express PCB • Cadence Allegro • Git • Arduino IDE
Ni Multisim • Quartus II • Modelsim • MATLAB • Arch Linux • MS Office Suite • Visio • Photoshop
Lightroom • Blender 3D • Sony Vegas

Notable Classes ...Advanced Concepts in Electronics Packaging • Digital Signals Processing • Applied Machine Learning
Control Systems • Microcontroller Systems • Signals, Systems & Transforms • Electronics 1 & 2
Digital Systems Design • AC/DC Circuits