CAREER PROFILE

- · Electrical Engineer graduate with honors distinction.
- · Worked as independent contractor twice during college.
- · Experience working as software engineer for two years during college.
- · Learned Android, Python, Git and Linux command line tools from on-line tutorials/videos.



Software Engineer 1

05.2017 - PRESENT

System Team at Vaddio

- Working with FPGA and python developers to create an integrated embedded system that routes audio and video signals in professionally built AV systems.
- I help to build a custom Linux distribution from the '/' up with the Yocto Project.
- Our team uses many other tools during development such as Jenkins, Jira, Git, Bitbake, and Puppet.

Software Engineer

11.2018 - PRESENT

Dojo Five

- · Develop embedded software for Particle, Nordic, and STM32 microcontrollers
- . Utilized custom hardware with the Particle platform for a custom door access solution
- · Developed with NRF52 SDK to create devices in a complex robotic system with BLE services

Student Intern 05.2016 - 05.2017

Hardware Design at Daktronics

- · Developed C++ code for communication with I2C sensors from a Linux system.
- Developed a C++ library that simplifies usage of librrd, a C library for creating, updating, and using RRDs (Round Robin Databases).
- Used Test Driven Development to implement library, used CxxTest Framework.

Student Technology Fellow 08.2013 - 05.2016

Classroom Technology Services at SDSU

Research Assistant 03.2013 - 05.2016

EECS Department at SDSU

Software Developer Resident 06.2015 - 12.2015

Subcontractor for Earth Resources Observation Systems

Sputtering System Lab Technician 09.2014 - 02.2015

NASCENTechnology



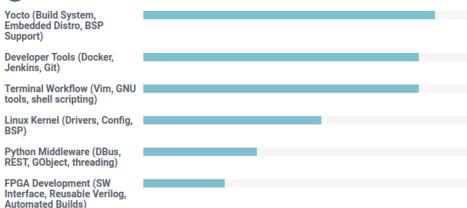
Hardware Integrated Prototyping Environment at SDSU Engineering Expo - Nathan Genetzky, Jordan Ulmer, Tanner Johnson (SDSU, 2017)

Design and Verification of a SPI to JTAG Interface Adapter - Nathan Genetzky, Jordan Ulmer (SDSU, 2017)

Interactive User Interface with PIC18 Microcontroller - Nathan Genetzky, Drake Jeno (SDSU, 2017)

Particle Projects - Firmware for micro controllers sold by particle.io for use with wifi or cellular cloud devices.

SKILLS & PROFICIENCY





Software and Hardware

- ✓ nathan@genetzky.us
- (c) academic.genetzky.us
- in linkedin.com/in/genetzky
- github.com/NGenetzky
- twitter.com/ngenetzky
- a keybase.io/ngenetzky

EDUCATION

BS Electrical Engineering

South Dakota State University 2012 - 2017

Minor Software Engineering

South Dakota State University 2012 - 2017

LANGUAGES

Cpp (~5 years

Bash (~5 years)

Python (~3 years)

C (~3 year

Dockerfile (~2 year)

Verilog (~2 years)

Java for Android (~1 year)

Yaml for Ansible (~1 year

INTERESTS

ice and rock climbing

snowboarding and skiing

cookina

jetsking and water skiing

camping

hobby-electronics, home automation, RPI