

Cyril “Nick” Engmann

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EDUCATION

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- The University of Texas at Austin** - Bachelor of Science, Electrical Engineering May 2016
Track: Integrated Circuits & Embedded Systems
Minor: Government
- The University of Texas System** – Bill Archer Fellow Spring 2016
Competitively selected for a semester-long Washington, D.C., internship and academic fellowship program
- Universidad de Cantabria** – Study Abroad Summer 2014

PROFESSIONAL EXPERIENCE

Circadence – *Remote Systems Architecture Engineer (R&D)* September 2018 – Present

- Utilized CAD software to design multiple enclosures for custom hardware solutions.
- Responsible for architecting, implementing and testing multiple software and firmware solutions for custom hardware.
- Designed multiple custom PCB solutions utilizing both the ESP32 and ATTiny85 chipset.
- Utilized Software Defined Radio to spawn a custom 4GLTE Base station. Created an operation GUI for users to forward traffic, track logs, and maintain Command + Control channels.
- Maintains two high quality 3D printers for both rapid design and production.

Hackster – *Contributing Freelance Writer* July 2019 – February 2020

- Researched and covered different technologies that interest the readership.
- Curated 13 different articles, with concepts ranging from green energy technologies to hardware cybersecurity solutions.

Space and Naval Warfare Systems Command (SPAWAR) – *Engineer* July 2017 – September 2018

- Architected a solution to upgrade the communications platform to support the JAUS protocol on the TALON Explosive Ordnance Disposal Robot, using external embedded devices.
- Wrote a radio command API with 12 different function calls which interface with an embedded modular radio.
- Developed a React/Django application to calculate ROI on Cybersecurity tools for specific environments.

Quod Certamine – *Founder* June 2016 – June 2017

Founded a small business to provide technical solutions for startups and small businesses. Primary client being:

CURB – *Software/Hardware Engineer:*

- Developed testing programs to manage software provisioning for their manufacturing facility in Dallas Texas that produces over 1,000 units a month
- Engineered a testing environment to produce accurate calibration values for high precision current transformers
- Developed an Amazon Alexa application utilizing their technology to enable verbal interaction

PROJECTS

Flashcards for Developers – *Co-Founder* <https://flashcardsfordevelopers.com>

- Developed a website to help individuals with technical interview prep using flashcards.
- Managed a team of contractors to curate educational content on the website
- Participated in YCombinator Startup School while iterating on both the design and the content of the application.

In-Plants – *Hardware/C++* <http://bit.ly/in-plants>

- A mesh-networked soil monitoring system for houseplants. Uses Particle Gen 3 boards, installed in a custom enclosure.

PiDSLM – Raspberry Pi DSLM – *Hardware/Python* <https://bit.ly/raspi-dslm>

- Designed a 3D printed enclosure and a software suit to utilize the new Raspberry Pi HQ 12.3MP Camera

CIVIC ENGAGEMENT (LEADERSHIP)

Major League Hacking – *Coach* November 2015 – September 2019

- Help student hackathon organizers from across the country run their hackathons while representing Major League Hacking, the official student hackathon league
- Help students debug code and learn how to operate new hardware/software packages

PROFESSIONAL SKILLS

Programming Languages (in order of familiarity): Python, JavaScript, C/C++, Bash, Java, HTML/CSS, MATLAB, PHP, VBA
Computer: Linux, Solidworks, Fusion 360, React, Angular, Git, Visual Studio, cmake, bitbake, Keil, Microsoft Suite, Android Studio