

# JOSH NOBLE

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## EDUCATION

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### **Rochester Institute of Technology**

May 2021

B.S. Electrical Engineering

Honors College, Presidential Scholar, Sigma Chi

GPA: 3.59

## EXPERIENCE

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### **AMD**

Spring/Summer 2020

*Silicon Reliability Intern*

*Austin, TX*

- Developed test programs to stress chips under high voltage/temperature conditions
- Evaluated device degradation following tests and helped coordinate production testing in Singapore
- Performed electrical design and debug of test boards

### **Council Rock: Smart Private Networks**

Spring/Summer 2019

*Hardware Engineering Intern*

*Rochester, NY*

- Integrated power-over-ethernet and flyback transformer into existing PCB assembly
- Configured products for LTE/LoRaWAN connection using Amarisoft LTE simulator
- Implemented hardware peripherals, including ADC w/4-20mA sensors and touchscreen

### **Exelon Generation**

Summer 2017 & 2018

*Systems Engineer Intern - Calvert Cliffs Nuclear Power Plant*

*Lusby, MD*

- Tested copper coating solution to prevent hydroid growth at water intake cavities
- Implemented wireless gauge readers onto control valves in the feed water system

*Electrical Design Intern - Ginna Nuclear Power Plant*

*Ontario, NY*

- Updated electrical equipment documentation in preparation for NRC inspection
- Drafted plan to install power transformer into plant substation

### **Spang Engineered Solutions**

Summer 2015

*Electronic Assembly Technician*

*Pittsburgh, PA*

- Assembled transformers, inductors, lightning arresters and printed circuit boards
- Tested electrical components – impedance, hi-pot, DCR, tensile testing

## PROJECTS & OTHER EXPERIENCE

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**Smart Shed** - designed control and solar power systems to enable fly composting in cold weather

**Nand2Tetris** - built ALU, memory and CPU in HDL; assembler, VM, compiler written in C++

**Volunteer Technician** - served 3 weeks in Guatemala hospital repairing medical equipment

**Vending Machine** - RPi controlled dispensing and cooling; Python web-scraper to accept Venmo

## LANGUAGES & TECHNOLOGIES

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**Software** Python, C, Assembly, Matlab, Simulink, VHDL, Eagle PCB, SPICE, HTML/CSS

**Hardware** MSP430, RPi, Arduino, SBC, LTE Modems, Soldering, Oscilloscope, Spectrum Analyzer