Thomas Jagielski

Campus
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Education

OLIN COLLEGE OF ENGINEERING – NEEDHAM, MA — MAY 2022

- Bachelor of Science in Electrical and Computer Engineering — *GPA: 4.0*
- Half-Tuition Scholarship Recipient
- Relevant Courses: Computer Architecture; Introduction to Microelectronic Circuits; Quantitative Engineering Analysis; Principles of Engineering; Software Design; Introduction to Sensors, Instrumentation and Measurement; Discrete Math

SOUTHWEST HIGH SCHOOL – MINNEAPOLIS, MN — JUNE 2018

- Valedictorian, IB Diploma, AP Scholar Award, Yale Book Award Recipient — GPA*: 4.0*

Experience

OLIN COLLEGE | INTRODUCTION TO MICROELECTRONIC CIRCUITS | COURSE ASSISTANT — FALL 2020

- Helped students develop intuition and methodologies for transistor level design and operation of bipolar and CMOS circuits through review sessions and SPICE simulations
  - Focused on single-transistor amplifier stages, current mirrors, differential pairs, and single-stage op-amps

GRACO INC. | MINNEAPOLIS, MN | ELECTRICAL ENGINEER INTERN — SUMMERS 2019 AND 2020

- Worked for Applied Fluid Technology and High-Performance Protective Coating division
  - New product design testing and verification
    - Developed a sensorless motor control algorithm for PIC microcontroller
    - Product improvements for spray foam insulation system for homes, industrial/commercial buildings, and roofing jobs
  - Warranty return hardware debugging for future design improvements
  - Developed automation system for Altium documentation
  - Experience with oscilloscopes, power supplies, multimeters, and current clamps

GRACO INC. | MINNEAPOLIS, MN | AUTOMATION INTERN — SUMMER 2018

- Designed, built electrical panel, and programmed PLC for a fixture to improve ergonomics of protective coating application manufacturing
- Developed a LabVIEW program that pulled assembly line data, performed computations, and displayed metrics to improve assembler productivity and increase yield

VOLUNTEER COUNSELOR | BAKKEN MUSEUM | ELECTRICAL MUSEUM — SUMMER 2015-2017

- Assisted program participants in creating innovative projects such as radio jamming circuits or solar powered model cars using the Bakken process: Think it, Make it, Improve it, Show it
- Learned project development and the engineering process

Skills

- Verilog, Python, LTspice, MATLAB, Glade Integrated Circuit Layout Software, KiCAD, PCB design, Mathematica, Altium, Arduino, AutoCAD Electrical, LabVIEW, SolidWorks, C Programming Language, 3d printing, and laser cutting
- Project Portfolio Website: https://thomasjagielski.github.io/Project-Portfolio/

Activities

- Olin Rocketry Club – Goal is to launch a rocket to 10,000 feet
  - Designed avionics main flight computer PCB for inflight altitude, GPS, and gyroscopic sensing
  - Started Microelectronics Research sub-team to develop standard cell library using a C5N process