Chris Biancone

BS/MS Electrical Engineering

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c-biancone
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About

Fourth-year EE student at RIT; DoD SMART Scholar. I have background in the semiconductor, embedded systems, and defense industries, and extensive experience working on multidisciplinary teams.

I am black belt and have a passion for playing music, hiking, and designing for a sustainable future.

Education

Rochester Institute of Technology

GPA: 3.64 2019 - Present
BS/MS Electrical Engineering with focus in MEMS

Pope John XXIII HS

GPA: 4.26 2015 - 2019
MIT Zero Robotics
Captain FTC Robotics

Skills

Altium; Quartus; SPICE; Mentor Graphics; Solidworks; AutoCAD; Excel

C(++); Python; MATLAB; Assembly; Java; LaTeX; Bash

Agile Development; Semiconductor Design; Additive Manufacturing; Scanning Electron Microscopy

Experience

DEVCOM AC
Armored Vehicle Fire Control Systems
May 2021 -- Present
Picatinny Arsenal, NJ

Assist development of next-generation medium caliber gun control systems. Apply knowledge of real-time processing, control systems, and military design requirements. Support obsolescence mitigation for Abrams tanks.

RIT / NSF
MEMS Device Research
January 2021 -- Present
Rochester, NY

Developed novel process flow for manufacturing sensor array of previously unattained sensitivity. Testing to improve current microfluidic models for pumpless cooling of electronics.

RoNetco
Information and Electronics Technologies
June 2019 -- September 2020
Ledgewood, NJ

Designed and documented network room fire suppression system. Drafted AutoCAD drawings for construction. Improved efficiency by automating the transition from Windows 7 to 10.

Projects

RISC CPU

Verilog Harvard architecture CPU implemented in hardware on Altera FPGA. Wrote Python assembler for full development stack control.

MSP430 Oscilloscope

Created a functional portable oscilloscope using Assembly algorithms. Uses capacitive touchpad for input and LEDs and UART for display.

Mandelbrot Set Render

Efficiently rendered Mandelbrot Fractal in C++ with colorization and vector-mapping. Integrating with custom thread pool.