

# Paul Ugolini

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**Rochester Institute of Technology** – Rochester, New York  
B.S. Computer Engineering, Graduating December 2019  
Computer Science House – Member – csh.rit.edu

## Experience

NVIDIA – Software Engineering Intern [ Linux Graphics Drivers ] *Jun – Aug 2017*

- Fixed bugs in and refactored NVIDIA’s EGL implementation.
- Investigated distribution-specific driver bugs in OpenSUSE Linux.
- Contributed code to internal Vulkan driver testing tools.

Thimble.io – Engineering Intern [ Embedded Systems and Hardware Design ] *Jun – Dec 2016*

- Designed 2 DIY kits to be delivered to subscribers, incl. PCB, BOM, and starter code with library.
- Wrote drivers for sensors and peripherals, chose parts to fit within budget.
- Quadcopter kit included WiFi, sensors, motor control, battery control, and Atmel MCU on board.
- Alarm clock kit mated with standard Arduino footprint. Included real-time clock and LED display.

STEM Summer Camp – Co-Founder *May 2014 – present*

- Started the only summer STEM program for middle school students in the Youngstown, OH area.
- Wrote curriculum from scratch for two levels and trained non-technical adult staff.
- Built automated game field and scoring system for advanced students.

## Projects

The Ugolino – A custom Arduino clone featuring two co-processors and shared SRAM.

BladeWriter – Use a software defined radio to show text in the scrolling heat map of an FFT viewer.

BIOS Mod – Worked with a partner to enable installation of Linux on a Lenovo Yoga 900 laptop.

Quadcopters – 2 hobby-grade quadcopters with remote video, autopilot, and modified firmware.

## Skills

C / C++ / Python  
ARM Thumb / AVR

Fedora / Arch Linux  
PSoC / Arduino

KiCAD / Altium Designer  
VHDL / Hardware Design