

# Shawn T. O'Brien

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## EDUCATION

**York College of Pennsylvania** – York, Pa

**Fall 2013 — August 2017**

*Bachelor of Science, Computer Engineering*

### **Skills and Coursework**

- Proficient with soldering of electrical components, surface mount and circuit bread boarding
- Design and Analysis of Digital Circuits: Boolean algebra, gate-logic, logic networks, state machines
- Proficient with Arduino, PIC and Mbed microcontroller programing and sensing networks.
- Circuit board design with Eagle and DesignSpark PCB
- Proficient in C, MATLAB, and Java programing
- Proficient with multimeter, oscilloscope, and waveform generator
- Experience with CNC and manual lathe / mills
- Engineering Practice and Design Studio (EPADS): Collaborated with of other engineering students to design and fabricate a solution to an engineering problem
- Sensing and Actuators team for the 2017 automated greenhouse project for Goode Elementary. PCB design and manufacturing of sensor system to measure conditions in the greenhouse
- Experience with SolidWorks and Draftsight

**Community College of Vermont** – Winooski, Vt

**2011 — 2013**

*General Studies in Mathematics, English, Physics*

**Essex High School and Center for Technology, Essex** – Essex, Vt

**2003 — 2007**

*Computer Systems Technology*

- Completed A+ and Network+ certification course
- Skills USA Vermont gold medalist winner, Principles Award and Honor Roll

## PROFESSIONAL EXPERIENCE

**Hazelett Corporation** – Colchester, Vt

**September 2017 — Current**

*Automation Engineer*

- Program Allen Bradley and Siemens PLC's using ladder logic and structured text
- Designed and programmed touchscreen interfaces
- Developed and manufactured embedded safety system sensor using microcontrollers in manufacturing machines
- Modeled control panels using DraftSight
- Created and updated existing electrical schematics using Eplan
- Commissioned industrial equipment worldwide working with international teams
- Performed safety and risk analysis of industrial machines
- Programmed copper, lead, and aluminum caster machines control systems

**Morehouse Instrument Company** – York, Pa

**Summer 2015, Spring 2016, and Fall 2016 Semesters**

*Computer Engineer & Automation Intern*

- Created custom embedded circuit board to control and automate calibration systems
- Designed and programmed PC and Tablet software to control calibration machines
- Designed PCB control circuit
- Assisted President in prototyping and completing engineering projects

**Small Dog Electronics** – South Burlington, Vt

**April 2012 — August 2013**

*Certified Apple Service Technician*

- Diagnosed and repaired failing hardware and software on Apple Laptops, Desktops, iPads, and iPhones using client testimony.

**Century 21 Jack Associates** – South Burlington, Vt

**October 2010 — April 2012**

*IT Support Specialist & REALTOR*

- Performed IT and computer assistance to company computers and network equipment
- Acquired real estate license and assisted other real estate agents at showings and administrative tasks

**Logic Supply, Inc.** – South Burlington, Vt

**October 2007 — September 2010**

*Computer Hardware Technician*

- Assembled and performed quality assurance on Mini-ITX computer systems
- Troubleshoot computer hardware and Windows operating systems issues