

# Nathan Corwin

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Online Portfolio: <http://ncorwin.github.io/>

## EDUCATION

### Northwestern University, Evanston, IL

**MS in Robotics Engineering**.....Expected December 2016

- **GPA:** 3.63/4.00
- **Relevant Coursework:** Robotic Manipulation, Embedded Systems, Dynamic Simulation, Mechatronics, Digital Image Analysis, Feedback Systems, Machine Learning, Optimal Control
- **Projects:** Jamming Gripper for Baxter Robot, Droplet Placement system for PPOD Project

### Trinity College, Hartford, CT

**BS Engineering, Mechanical Concentration, Minor in Studio Art**.....Graduated May 2015

- **GPA:** 3.20/4.00
- **Relevant Coursework:** Introduction to Robotics and Design, Statics, Dynamics, Engineering Materials, Mechanics of Materials, Linear Algebra, Linear Circuit Theory, Automatic Control Systems, Introduction to Java Programming, Fluid Dynamics
- **Electives:** Studio Art, Psychology, Japanese, Tokyo History

### Air Academy High School, Colorado Springs, CO

**4 Years Engineering Path, 6 AP classes**.....Graduated May 2011

- **GPA:** 4.10/4.00
- **Extra Curricular:** FIRST Robotics, 4 years

## SKILLS

- 3D Printing, Mechanical Design, Machining, Woodworking.
- PCB Design, Circuit Design, Wiring and soldering.
- CAD software (Autodesk Inventor, Solidworks, OnShape), Image Editing software (Photoshop, GIMP)
- Programming: Python, C, C++, C#, Basic Java, MATLAB, Mathematica, and Labview
- Microsoft HoloLens, Unity Development, Android Development,
- OS: Windows, Linux, ROS

## WORK EXPERIENCE

### AIR, Northwestern University Garage (Incubator), Evanston, IL

**Startup Company, Software Engineer**.....July-October 2016

- Developed software platform for HoloLens/Augmented Reality hardware
- Wrote Unity 3D code to create holograms that could be positioned in the real world
- Won 1st prize in Motorola Sponsored Demo Day pitch competition

### X-IO, Colorado Springs, CO

**Internship**.....December 2014, Summer 2014-2015

- Assisted Hardware team prototype and test new server components
- Managed shipping/receiving, database management, and inventory responsibilities

## EXTRA CURRICULARS

### Robot Study Team, Trinity College, Hartford, CT

**Member/Sub-Team Leader**.....2011-2015

- Placed 3<sup>rd</sup> and Won Connecticut Design award in Trinity College Robowaiter International competition
- Sub-team leader: in charge of small group of students that designed and built robots for TC Robot Competition
- Mentored Freshman Robowaiter team: involved running meetings, managing schedules, and offering advice

### Engineers Without Borders, Trinity College, Hartford, CT

**Independent Study**.....2013-2014

- Design Team: Designed latrines for Tanzanian Pre-school
- Media Team: Designed advertising materials; posters, pamphlets, flyers