



# Andrew Guthrie

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Pratt and Whitney Website:  
[PW.UTC.com](http://PW.UTC.com)

GitHub:  
<https://github.com/guthriea>

Portfolio Website:  
<http://www.tweakunique.com/projects-1/>

## OBJECTIVE

Part or full-time employment that will take advantage of my strong engineering and programming skill sets.

## EXPERIENCE

### Manufacturing Engineer, Pratt and Whitney (contractor: Cyient)

Middletown, Connecticut — Feb 2012- June 2014

- Created FT4000 # 2 Bearing instructions
- Did compliance work for MRJ Geared Turbofan -501 and -502
- Worked on F-135 military development

### Apprentice, Independent Software's A100 Program

New Haven, Connecticut — March 2016 - Present

- Built full stack JavaScript applications in Meteor.
- Served as Scrum Master on 4-person developer team for Xavier.
- Trained Agile process, programming, UI/UX, technical communication, and DevOps.

### Invention: The Player Harp

New Haven, Connecticut — June 2014 - Present

- Built a 29 string harp
- Built a harp player
  - CAD 3D printed parts
  - Programmed Arduino microcontroller in C
  - Wired circuitry of stepper motor, servos, and solenoid

## EDUCATION

### Rensselaer Polytechnic Institute

Mechanical Engineering and Design — 2011

- Rensselaer Leadership Award Winner
- Sigma Phi Epsilon Vice President of Recruitment

## NOTABLE PROJECTS

The Player Harp - <http://www.tweakunique.com/the-player-harp/>

The Rhymometer - <https://rhymometer.herokuapp.com/>

SunDial window - <http://www.tweakunique.com/sundial-window/>

Go-Kart - <http://www.tweakunique.com/custom-go-kart/>

Coil Case - <http://www.tweakunique.com/bud-wrapp/>

## TECHNICAL PROFICIENCY

### Software

SolidWorks certification # **C-45ET965KCH**

Python, HTML, CSS, JavaScript, Adobe Creative Suite

### Hardware

3D Printing, Woodworking, Metalworking

## ATHLETICS/ACTIVITIES/ART

Under-water hockey player, Disc golfer, Fitness enthusiast, Strategy boardgamer, Poet