



Andrew Guthrie

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Pratt and Whitney Website:
PW.UTC.com

Personal Website:
TweakUnique.com

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- Jun 2014

Overview

- Wrote hundreds of operations on jet engine assembly for mechanics
- Trained 10 new hires, authored tutorial documents
- Led the standardization of operation source citation data

Programs

- FT4000 # 2 Bearing
- MRJ Geared Turbofan program compliance FECC -501 and -502
- F-135 military development

Operations Engineer, Voda

New Haven, Connecticut — Dec 2015-present

- Wrote initial operations sheets from prototype
- Requested quotes for parts for future models

Invention: The Player Harp

New Haven, Connecticut — Jun 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

NOTABLE PROJECTS

- The Player Harp - <http://www.tweakunique.com/the-player-harp/>
- SunDial window - <http://www.tweakunique.com/sundial-window/>
- Go-Kart - <http://www.tweakunique.com/custom-go-kart/>
- Coil Case - <http://www.tweakunique.com/bud-wrap/>

EDUCATION

Rensselaer Polytechnic Institute

Mechanical Engineering and Design — 2011

Fisher Unitech

Solidworks — 2012

- Certification # **C-45ET965KCH**

SOFTWARE PROFICIENCY

- SolidWorks
- Python
- Javascript
- Adobe Creative Suite

LEADERSHIP

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

HARDWARE EXPERIENCE

- 3D Printing
- Woodworking
- Metalworking

ATHLETICS/ACTIVITIES

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

ART

- See website: TweakUnique.com
 - Poetry
 - Short Stories