

## BENJAMIN FOLKS

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### AEROSPACE-SOFTWARE ENGINEER

Multi-faceted engineer with experience working on project teams in numerous fast-paced environments. Aims to combine Aerospace Engineering Degree, software development experience gained in professional environments, and real-world aviation experience as an **FAA Certified Instrument-Rated Pilot**.

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### TECHNICAL SKILLS

- Python/Django
  - SolidWorks 3D CAD
  - JavaScript/Ember.js
  - VB.NET/VBA
  - Esprit CAD/CAM
  - HTML/CSS
  - Direct knowledge and understanding of avionics functionality onboard general aviation aircraft
    - Aspen glass panel Primary Flight Display (Attitude Indicator, Heading Indicator, etc.)
    - Navigation systems equipped with Dual VOR's, CDI, DME, and GPS (Garmin GTN 650)
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### WORK EXPERIENCE

#### RedShelf • Chicago, IL • January 2018 – Present

*Web development company providing digital content for educational institutions*

##### Full-Stack Software Engineer

- Work within an active software development team to address product-driven enhancements/tickets while simultaneously building out new business-driven applications
  - Construct unit, integration, and acceptance (Selenium) tests, to complete an initiative to increase coverage across the code-base to over 90%
  - Collaborate with numerous development teams in an Agile Environment, using SCRUM methodology
  - Created an entirely new application utilizing Django-Rest-Framework and Ember.js
    - Built REST API's to handle CRUD methods, as well as other custom operations, utilized by the front-end Ember application and back-end services
    - Service-based encapsulation for all Python objects, where API Logic Managers are used for all cross-service related queries
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#### AdThrill • Chicago, IL • December 2017 – Present, (Part-Time)

*Start-up website for users to watch and rate advertisements ([adthrill-prod.herokuapp.com](http://adthrill-prod.herokuapp.com))*

##### Lead Python Engineer

- Successfully created a user-business search algorithm by redesigning model definitions within the Python/Django application
  - Deployed the first live production version of the site, followed by continuous enhancement releases
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#### DP Technology – ESPRIT • Rosemont, IL • July 2012 – December 2017

*Developer and supplier of computer-aided manufacturing (CAM) software for CNC machine tools*

##### Senior Manufacturing/Software Engineer

- Create technical designs and generate manufacturing processes for concurrent OEM projects
  - Build SolidWorks CAD assemblies of dynamic machine models utilized for digital part verification
  - Determine processes and tooling necessary for manufacturing aerospace and automotive turn-key parts, in order to produce time studies and fully functional milling/turning programs
  - Plan and create VB.NET/VBA applications within the ESPRIT API for automating tool selection and development of machining processes for a range of CNC mills, lathes, and multitasking machine tools
  - Travel onsite to aerospace and US government clients to oversee technical projects, including NASA Glenn, Woodward Inc, Northstar Aerospace, Tinker AFB
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### EDUCATION

**Bachelor of Science in Aerospace Engineering**

**UNIVERSITY OF ILLINOIS • Urbana-Champaign, IL • 2011**

**FAA Certified Private Pilot - Instrument Rating**

**Certified SolidWorks Mechanical Design Professional**