

# Douglas Swanson

Software Engineer

## Contact

### Address

Colorado Springs, CO, 80908

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## Skills

Agile

Code reviews

JavaScript

Software applications

MS Access

CAD development

Client requirements

Database management software

Visual Basic

.NET development

Forward-thinking Software Engineer with background working productively in dynamic environments. Fluent in C# and Javascript programming languages used to develop software within Aerospace. Proud team player focused on achieving project objectives with speed and accuracy.

## Work History

2018-08 -  
Current

### Software Engineer, Phantomworks

*Boeing, Colorado Springs, CO*

- Worked in Phantomwork's Virtual Warfare Center (VWC)
- Designed real time operator in the loop simulation software.
- Wrote applications in C#, C++, and Javascript using data structures and algorithms.
- Assisted in the development and integration of a distributed software environment.
- Participated as a productive member of an AGILE team.
- Assisted during Air Force and Space Force training events as both a customer representative and a simulation lead

2016-06 -  
2018-08

### Systems Engineer, Wideband Global Satcom (WGS)

*Boeing, Colorado Springs, CO*

- Worked on the Wideband Global Satcom (WGS) satellite system
- Worked with the Air Force on geosynchronous satellite operations and satellite situational awareness.
- Gained hands-on experience interpreting recommended operating procedures (ROPs) in order to advise upon on going sustainment operations.
- Utilized Microsoft VBA in the development of tools that allowed for process improvement for the Air Force and Boeing TA team.
- Used knowledge of the Spacecraft to solve anomalous conditions during on station operations.

- Initialized the use of GitLab for Code Content Management for this contract.
- Worked with a High Fidelity spacecraft simulator to test future operations as well as newly released processes.

2014-06 -  
2016-05

## **Product Line Technician**

*Colorado Industrial Packaging, Colorado Springs, CO*

- Assigned to production line and assisted in manufacturing of boxes, starting from cardboard blank to finished product
- Line produced between 200 – 1100 units daily and company applied industry standards to box design to ensure a quality product

2015-05 -  
2015-08

## **Integration and Test (I&T) Engineering Intern**

*Orbital ATK, Dulles, VA*

- Assisted in the manufacturing of geosynchronous satellites
- Gained hands-on experience interpreting the work instruction to ensure proper integration of parts onto the system
- Utilized Microsoft VBA in the development of an Access database to track manufacturing milestones, staffing, and resources for current and future contracts

2013-07 -  
2013-12

## **Manufacturing Engineer Intern**

*UTC Aerospace Systems, Colorado Springs, CO*

- Assigned to the aftermarket department whose primary product is upholstery for use on commercial and military aircraft seating.
- Researched, constructed and implemented industrial processes which supported UTCs version of Lean Six Sigma

2012-05 -  
2012-08

## **Environmental Test Engineering Intern**

*Orbital Sciences, Dulles, VA*

- Designed and programmed an inventory database to track test hardware
- Aided in design of personnel safety equipment to be used on shock cannon test equipment

- Gained experience operating test equipment for Component-level environmental tests, maintenance of vacuum chambers and basic database design

2010-05 -  
2010-08

### **Chemical Propulsion Laboratory Intern**

*Aerospace Corporation, Los Angeles, CA*

- Investigated the phenomena of extinguishing inadvertent combustion occurring during launch on hydrogen and oxygen fueled rocket engines.
- Research project involved assembly of a experiment apparatus, test, and collection of vital data which supported a principle investigators' project.

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## **Education**

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2009-08 -  
2016-05

### **Bachelor of Science: Mechanical Engineering**

*University of Colorado At Colorado Springs - Colorado Springs, CO*

2017-08 -  
2018-03

### **Professional Certificate: Architecture And Systems Engineering**

*Massachusetts Institute of Technology - Online Models And Methods To Manage Complex Systems*

2017-08 -  
Current

### **Master of Science: Engineering With Emphasis in Software**

*Arizona State University - Online*