

# **Benjamin Thrun**

## **EDUCATION:**

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### **Illinois Institute of Technology**

**GPA 3.50**

- Candidate for Master of Engineering in Mechanical and Aerospace Engineering Expected Dec 2020
- Candidate for Bachelor of Science in Aerospace Engineering Expected Dec 2020

#### **GRADUTAE COURSE WORK:**

- Data-Driven Modeling
- Computational Fluid Dynamics
- Engineering Analysis 1

#### **CLASS PROJECTS:**

- Wrote MATLAB code to solve truss structure with an indeterminacy of 1 using FEA methods.
- Developed Simulink model for a takeoff, holding, and landing procedure of a Jet Aircraft
- Used software and trade analysis tools to provide a solution to an RFP for an aircraft which mirrored that of the AIAA aircraft design competition

#### **LAB EXPERIENCE:**

- Subsonic wind tunnel and MATLAB to find coefficients of pressure for an airfoil.
- Supersonic wind tunnel, along with schlieren optical methods to find the shock wave angle.
- Instron Computer Controlled Universal Testing Machine used to collect data of stress and strain.
- Two-axis MEMs gyroscope in order to determine the pitch angle of the quadcopter arm

### **Joliet Junior College**

**GPA 3.64**

- General Education Requirements, Engineering August 2016-December 2017

## **WORK EXPERIENCE:**

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### **NAVFAC MIDLANT, United States Navy**

Great Lakes, Illinois

*Environmental Engineering Intern*

June 2019-August 2019

- Used AutoCAD to edit and update existing floorplans for buildings in historic district.
- Gathered pricing information for installation projects on base using RS Means.
- Reviewed contracting documentation including SOW and Submittals.
- Took part in an audit of hazardous materials compliance on offsite golf course.

#### *Certifications*

- Hazardous Substance Incident Response Management (HSIRM) certified.

### **Menards Inc.**

Morris, Illinois

*Garden Center Sales Associate*

June 2016-August 2018

- Read store plans and adapted old product to different locations to set up for new promos.
- Assisted customers with their projects and directed them to helpful resources through the internet.
- Trained new workers on how to properly maintain plants and product knowledge.

\*WORKED UP TO 20 HOURS PER WEEK WHILE IN SCHOOL\*

## **PERSONAL PROJECTS:**

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### **Refurbished a Pontoon Boat from the Aluminum Toons**

May 2016-September 2016

- Hardwired the helm to the motor, speaker, and batteries which were set in parallel to increase amp hours.
- Took outboard motor apart and replaced various parts including spark plugs, starter motor, carburetors, fuel pump, and flywheel.
- Replaced the decking and applied new carpet, skinned the underside of the pontoon with metal

## **SKILLS:**

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**Python ♦ MATLAB ♦ Simulink ♦ dSPACE ♦ HTML ♦ RS Means ♦ XFLR5 ♦ Microsoft Office ♦ Windows**