

# Darren Law

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## Education

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### Texas A&M University, Dwight Look College of Engineering

Master of Science in Mechanical Engineering

Anticipated May, 2017

### Binghamton University, State University of New York, Watson School of Engineering

Bachelor of Science in Mechanical Engineering

Graduated May, 2015

Cumulative GPA: 3.40/4.00

Pi Tau Sigma Mechanical Engineering Honor Society

## Technical Skills

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- Soldering
- Solid Edge
- Pro-Engineer: Creo 2.0
- ANSYS APDL
- Microsoft Office Suite
- MATLAB
- Arc/Stick Welding

## Technical Courses

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Engineering Analysis, Computer Aid Engineering, Thermodynamics, Science of Engineering Material, Fluid Mechanics, Statics, Dynamics, Solid Mechanics, Ordinary Differential Equation, Mechanical Engineering Design, Engineering Project Management, Measurement and Instrumentation, Heat Transfer, Mechanical Vibrations, Mechatronics, Introduction to Finite Element Method, Control Systems in Mechanical Engineering

## Internship Experience

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**The New York Times**, College Point, New York

June', 2014-July', 2015

Intern at Machinist Department

- Comprehend the basic operation and stages of newspaper production in Reel Room, Press Room, Muller and Mail Room
- Assist Machinist Foreman to perform emergency repairs and preventive maintenances on Muller Martini Reel system, Goss Printing Press, HK Palletizer and FMC automated carrier
- Predict machinery failures with production defect data and provide possible solutions to the machinery problems

## Team Project Experience

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**Remotely Operated Underwater Vehicle Project with Lockheed Martin**, Binghamton, NY

Sept', 2014-April', 2015

Mechanical Engineering Team Lead

- Designed a remotely operated underwater vehicle (ROV) for underwater exploration and data collection
- Built propulsion system and body of ROV with the application of 3D-Printing and integrated other sub-systems
- Planned and performed various testing procedure to confirm every project requirements
- Communicate effectively with team members and provide guidance for the mechanical engineering team

**Quadcopter Competition with Society of Hispanic Engineers**, Binghamton, NY

Sept', 2013-May', 2014

Mechanical Engineering Team Member

- Designed a drone to compete in the Penn State Boeing VTOL competition with sponsorship from Lockheed Martin
- Developed a catching mechanism on drone to pick up tennis ball
- Used Creo 2.0 to analyze stress, weight, and dimensions on catching mechanism
- Built and integrated the catching mechanism with teammates

**Landing Gear Mechanism Design and Analysis of Motion and Stress Project**, Binghamton, NY

Oct', 2013-Nov', 2013

Junior Design Project Fall 2013

- Designed an airplane landing gear with strict specifications from guideline
- Performed finite element analysis and mechanism analysis on Creo 2.0 to evaluate maximum stress, force, angular velocity and angular acceleration experienced by different pins within the design
- Composed a report on decisions made behind the design and utilized Solid Mechanics to verify the results from Creo 2.0