

Craig Talis

Elkins Park, PA - Email me on Indeed: [indeed.com/r/Craig-Talis/95b9a4924bdd7ef1](https://www.indeed.com/r/Craig-Talis/95b9a4924bdd7ef1)

WORK EXPERIENCE

Drexel University - Philadelphia, PA - September 2015 to March 2016

- Designed a mechanical robot to teach a natural and applied science
- Created a 3D model of a nautilus shell
- Conducted analyses based on volume, center of gravity, and mass flow
- Composed documentation involving assembly, manufacturing, and sciences
- Implemented product at the Center of Aquatic Sciences

Zodiac Aerospace - Swedesboro, NJ - April 2015 to September 2015

- Conducted compression and tensile testing on EMAS materials
- Composed field and lab procedures and reports
- Evaluated and redesigned in field procedures and equipment
- Conducted fire testing of Next Generation materials in San Antonio, TX
- Designed prototypes for new operating procedures and tooling
- Conducted individual research and experiments for new potential EMAS

Mechanical Engineer Intern

ZebraSci - Temecula, CA - April 2014 to September 2014

- Built and wired bench-top systems used for auto-siliconization and inspection of biotechnology
- Trained two engineers in Taiwan on system assembly and wiring
- Spent 30 days in Taiwan taking part in engineering collaborations
- Performed research into new gripper designs
- Redesigned over 500 parts to standardized the bench-top systems
- 110 hours of electrical wiring for four bench-top systems and a high-speed development cell.
- Over 400 hours of SolidWorks Modeling

Drexel University - Philadelphia, PA - March 2013 to June 2013

- Researched and designed specifications for new carbon fiber polymer composite
- Replaced and tested soundboards for resulting alterations in tone and resonance
- Prepared and presented written report to document protocols, results, and future work

Robotics Member/Mentor

Robotics Club - Philadelphia, PA - 2006 to 2011

- In charge of designing and building robot propulsion systems
- Built all physical robot parts and assembly in SolidWorks
- Taught Robotics Club members proper use of power tools, such as band saw and soldering iron
- Assisted team members in approaching and designing controls for other systems within the robot

EDUCATION

Bachelor of Science in Mechanical Engineering

Drexel University - Philadelphia, PA

June 2017

Masters of Science in Mechanical Engineering

Drexel University - Philadelphia, PA

June 2017

Certificate of Merit in Professional Development

Drexel University Career Management

December 2013

Central High School - Philadelphia, PA

June 2012

ADDITIONAL INFORMATION**Skills**

- Lab Equipment: HP Oscilloscopes, Function Generators, Soldering Iron, Vast tool Experience
- Software: MATLAB, Maple, Creo, AutoCAD, SolidWorks, Microsoft Office, Word, PowerPoint, and Excel

Relevant Coursework

Dynamics Funds Cmptr Aided Design Thermodynamic Analysis

Dynamic Engineering Systems Physics I, II, III Mechanics of Materials