

James Lauer

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EDUCATION

The Pennsylvania State University

Bachelor of Science Degree in Mechanical Engineering

GPA: 3.95

University Park, PA

Expected Graduation May 2018

Relevant Course Work:

- Engineering Design
- Differential Equations
- Matlab
- Engineering Mechanics: Statics
- Engineering Mechanics: Dynamics
- Mechanics of Materials

WORK EXPERIENCE

Z&F Consulting, Inc, (Full Service Engineering Firm)

Wayne, PA

Intern

May 2015

- Edited master drawings of cogeneration HVAC systems using AutoCAD software
- Observed maintenance on cogeneration systems on large scale dairy plant and assisted in troubleshooting issues
- Calculated pump specifications required for various systems

North Hills Country Club

North Hills, PA

Lifeguard

Summers 2012, 2013, 2014, 2015

- Oversaw all pool activities including: check ins, pool maintenance, facility sanitation, performing safety tests
- Supervised scheduled swim times and club orchestrated parties; maintained safety protocols
- Interacted with patrons and staff to ensure smooth daily operations
- Certified in American Red Cross First Aid, CPR, and AED; Wilderness and Remote First Aid

LEADERSHIP & COMMUNITY SERVICE

Eagle Scout Award

August 2015

- Constructed park benches and planted maple trees for use at New Life Presbyterian Church in Dresher, PA

Upper Dublin Teen Library Council

2013-2014

- Organized book drives to expand library resources for the surrounding communities
- Coordinated reading buddies program at local library to encourage reading and develop relationships with children

ACTIVITIES

Penn State Lunar Lion Project

Fall 2015 - Present

- Attend meetings and discuss development of lunar lander project

Upper Dublin High School Jazz Band

2012-2014

- Played Piano at numerous venues and competition
- Lead independently held section rehearsals; participated in weekly mandatory group rehearsals

SKILLS & INTERESTS

- Proficient in Microsoft Word, Excel, Power Point, Matlab, Solidworks,
- Interests include music, hiking, sailing