

BRIAN LOUGHRAN

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EDUCATION

Lehigh University

B.S. Mechanical Engineering

Minors in Aerospace Engineering and Business

2013 - 2017

GPA - 3.4

EXPERIENCE

Pratt & Whitney

Cold Section Methods

June 2016 - August 2016

East Hartford, CT

- Built and implemented a classification tool for data re-use of over 18,000 high volume external jet engine components. Successfully campaigned to numerous groups to gather support and \$25,000 in funding for cross-organizational implementation of the tool as standard work.

Aesculap Spine

New Product Development

January 2016 - October 2016

Center Valley, PA

- Worked in a team of five to create a medical grade parallel distracter device for surgical repair of degenerative disc disease in the lower spine. Thorough business case built for the product, including working prototype, FEA analysis, IP research, cost estimate and cash flow forecast.

Alcatel-Lucent Bell Labs

Thermal Design Engineer

June 2015 - August 2015

Providence, NJ

- Designed and fabricated a wind tunnel for thermal flow characterization over advanced 4G LTE and eventual 5G products. Thermal chamber testing employed to determine the maximum rated temperature. Acoustic testing of noise levels in fully anechoic chamber of cooling fans.

Lehigh University

Teacher's Assistant

August 2014 - December 2014

Bethlehem, PA

- Supported professor in teaching MATLAB and Arduino programming languages in Lehigh University's Applied Engineering Computer Methods class. Bi-weekly responsibilities included assisting students in analysis and debug of hardware and software components of electro-mechanical systems.

LEADERSHIP

Treasurer (*Lehigh Ice Hockey*)

August 2014 - May 2016

- Budgeted team funds of \$80,000, and forecasted future costs to ensure smooth operation of the club

Master of Ceremonies (*Alcatel-Lucent*)

August 2015

- Elected by fellow interns to organize and host the end-of-summer intern presentations

Intellectual Development Chair (*Kappa Sigma, Beta Iota*)

April 2014 - October 2015

- Introduced 5 bi-annual scholarships to recognize students of high academic standing

SKILLS

Proficient with MATLAB, C++, Java, Python, Arduino, SolidWorks, NX Cast, Pro/Engineer, LabVIEW, Autodesk Mechanical, SIMULINK, Simul8