41 Cambridge Ave. Denville NJ, 07834 ⑤ (201) 317 3254 ⋈ bloughran618@gmail.com

Brian Loughran

Education

2013–2017 Mechanical Engineering, Lehigh University, GPA – 3.25.

Minors in Aerospace Engineering and Business

Experience

2015 Mechanical Engineering Intern, ALCATEL-LUCENT BELL LABS, Murray Hill.

Wind Tunnel design and fabrication for use in testing advanced 4G LTE products. Wind Tunnel employed to thoroughly characterize flow dynamics through the system including cooling fan performance. Thermal chamber testing to determine maximum rated temperature. Acoustic testing in fully anechoic chamber of cooling fans.

2014 **Teacher's Assistant**, Lehigh University.

(Applied Engineering Computer Methods) Support Professor in teaching MATLAB and Arduino Real-Time Processing programming languages. Bi-weekly responsibilities include assisting students in analysis and debug of mechanical control systems.

2012-2014 Inventory Management, QUAKER PET GROUP, Whippany.

Responsible for accurate maintenance of warehouse inventory as well as documentation and organization of shipments coming in and out.

Leadership

2015 Master of Ceremonies, Alcatel-Lucent Summer Interns, Murray Hill.

Elected by fellow inters to organize and host final presentation of summer projects.

2014-2015 **Treasurer**, LEHIGH UNIVERSITY ICE HOCKEY, D1 Club Varsity.

Collect, budget and manage team funds (over 80,000 dollar working funds).

2014-2015 **Scholarship Chair**, KAPPA SIGMA, Beta lota.

Introduced 5 bi-annual scholarships for students of high academic standing; this was in addition to main responsibilities including helping members improve GPA, coordinating new member study hours, and arranging monthly meetings with school officials.

Related Projects

C++ Program to play a dungeon crawl style game

Use of finite element method in MATLAB to analyze stresses in a conical shaped beam Arduino program with use of 2 lasers and 2 servo motors to operate device to count ping-pong balls MATLAB program using singularity functions for a determinate beam containing a distributed load Use of LabVIEW programs to calibrate Wheatstone Bridge and measure strain in a beam under load

Awards and Distinctions

Packer Award for Excellence in Engineering

Dean's List (Lehigh University)

Summa Award

AP Scholar With Distinction

President's Award for Educational Excellence

Skills

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