I am writing to express my keen interest in a summer internship in cold section engineering. I am a junior mechanical engineer at Lehigh University with real-world working experience looking for an opportunity to build on that experience with an internship at Pratt and Whitney.

Last summer I had a tremendous opportunity to work for Alcatel-Lucent at Bell Labs, which provided me with invaluable insight into the engineering industry. My objectives were to do thermal and acoustic analysis of key 4G LTE Base Band Units (BBUs), but I was able to expand on this initiative and work in a wind tunnel to determine some of the flow characteristics through the system, and through this analysis gain valuable insight on thermal system.

This experience, coupled with my competitive education, makes me a candidate uniquely poised to excel with a position at Pratt and Whitney. During my experience at Lehigh, I believe I have developed many of the key skills required to excel at this position. For example I have worked extensively in MATALB, including a program utilizing finite element method to analyze the stress and deformation in a conical shaped beam, as well as becoming the TA for the introductory MATLAB class at Lehigh. I also have experience in LABVIEW. One notable project is a block diagram made to measure changes in voltage across a Wheatstone bridge, and subsequent calculations to measure stress in a beam.

I welcome any opportunity to meet and discuss my qualifications and candidacy in greater detail. In the interim, I thank you for your attention and forthcoming response.

Sincerely,

Brian Loughran