

Sebastian Baldini

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To Whom It May Concern,

I am excited to apply to summer 2025 Engineering Intern position at BAE Systems. I am interested in this position because I am interested in learning about and designing manned and autonomous systems and I am looking for a good place to gain more experience working in the defense industry. I am a Robotics Undergraduate and Graduate Student from Worcester Polytechnic Institute who will be graduating with my Bachelors in 2025 and Masters in 2026.

I would be a good fit for this position as I have more than 3 years' worth of engineering work experience from internships, research positions, and manufacturing lab jobs. Last summer I worked for Sig Sauer as their Remote Weapon System Intern. In this position I did mechanical and electrical design for their soon to be released Remote Weapon Station. Additionally I worked with the Testing and Evaluation department to program and design custom high speed tracking software to improve their data collection from high speed video of their firearms. These projects gave me both improved practical skills and experience working with many different tools and software such as Python, Solidworks, and computer vision in a manner and depth that are unavailable in an academic setting.

In my time at WPI I have gone beyond the standard requirements of the Robotic Engineering Major to get more experience in other fields, including Electrical Engineering and Computer Science. Additionally I opted to take higher level courses than were required for my undergraduate degree to improve the depth of my knowledge in the field of robotics. Currently I am in my senior year of my undergraduate degree and am currently striving to get my Masters in Robotics to gain a higher level of understanding in my field. Alongside my degrees I have been working for the past 2 years in research labs on developing custom embedded encoding solutions utilizing carbon infused tpu filaments and now am also working on my senior project in another lab to program a drone to intercept projectiles out of the air.

All of these numerous experiences along with many more have given me a great deal of hands on and theoretical experience and learning through my time at WPI, which I believe makes me a strong candidate for this role. My experience ranges from software development to material science research and drone controls programming which is a very unique range of experiences. This makes me a good fit for this position as there are many different projects at BAE where I could fit in and utilize any one or more of my diverse experiences to provide a benefit to my team and to the development of any project I am put on.

Sincerely,

Sebastian Baldini