

I am applying to the Masters of Science in Computer Science at Columbia University to learn to build solutions to problems that are emerging in the aerospace industry today. As companies work relentlessly to increase safety and reliability while simultaneously striving to decrease cost, noise, and emissions, skills based in computer science will prove paramount to the advancement of the industry. The industry recognizes this, and is moving toward automation and computer solutions to problems. I am fascinated with this shift, and I want to contribute to meeting these challenges. My goal is to be at the forefront of the emergence of automation and AI in the aerospace industry, and to be able to combine principles from computer science with my mechanical engineering background to build state-of-the-art solutions in the aerospace industry.

Columbia is a nationally acclaimed research university in the computer science field, making it an ideal university from which to build the cross-discipline skills needed to succeed in the aerospace industry. Especially unique to Columbia is a wide variety of ongoing projects and research labs, including the Robotics Laboratory, Machine Learning lab, and Network Computing Laboratory. Principles from these labs are likely to impact the aerospace industry in the near future, which makes an education at Columbia University a great opportunity for me to grow intellectually. Looking forward, I am excited to have the opportunity to solve challenging problems which face the aerospace industry in the near and long term future.