To Whom it May Concern,

As a Mechanical Engineering undergraduate student with over 2 years’ experience in both design and analysis of mechanical systems, I would like to apply for the student engineer position which you currently have available in the Robotics and Automation field.

Through my course work at the University of Texas at Dallas, I have gained in-depth familiarity with the design, assembly, analysis, and control of mechanical systems. I currently have an overall GPA of 3.39, with an average of 3.52 in degree-field related coursework. Through several team design projects, I have built up expertise in CAD using both SolidWorks and Creo Parametric 2.0. In the most recent such team project, I and my team created an intricate 3-D model of a movie prop consisting of more than several subassemblies and hundreds of individually specified features, including moving parts.

I have also gained experience in electromechanical design and automation through my coursework and independent study with Arduino microcontrollers. I led a team project during my first semester in which we constructed and programmed a light-seeking robotic blimp. The machine was run by an Arduino and maneuvered with three independent propellers.

I took two years of Java programming classes in high school, and since then have pursued computer programming as a hobby. I have mastery of Java and Javascript as well as proficiency in C and C#. Using Javascript and the popular Unity game development platform, I have developed two board game play-testing clients based on the prototype designs of other UTD students, as well as a binocular virtual reality proof-of-concept application.

I would very much appreciate the opportunity to discuss the student engineer position at SWRI, and my qualifications for it. I am a U.S. citizen and have a driver’s license. Please contact me at your pleasure to set up an interview.

Sincerely,

Captain America

808 River Mountain Drive, Pittsburgh, PA 92006

555.555.5555

[captainamerica@gmail.com](mailto:captainamerica@gmail.com)

https://www.linkedin.com/in/captainamerica