**ENGINEER COVER LETTER**

June 5, 20XX

Hiring Manager

NASA Jet Propulsion Laboratory

11 Grease Street

Pasadena, California 911091

Dear Hiring Manager,

I am writing to apply for a Mechanical Engineering position at NASA Jet Propulsion Laboratory (JPL). As a senior Mechanical Engineering student at the University of Illinois, I admire JPL's leading-edge technology and collaborative culture which enables your team to make significant contributions with the collaboration of world-renowned experts. I would love the opportunity to add value to our team, as I am confident in my ability to contribute as a mechanical engineer with my technical knowledge, relevant industry experience, and well-rounded skillset.

As a motivated problem solver and diligent learner, I have developed proficiency in the areas of mechanical design and analysis. During my internship in the Propulsion Design Department at ENGO CO., I successfully designed two large-scale tooling assemblies for the vacuum engine. I individually modeled and drafted over 200 components in Siemens-NX and worked with many departments to ensure we met all the technical and manufacturing specifications. In the end, I delivered a modular and cost-effective solution on an aggressive timeline and saved hundreds of technician hours. During my internship in the Component Testing Department at ADE Aviation, I contributed to my team by performing hand calculations to analyze the stress, fluid flow, and heat transfer in three combustion test rigs. I frequently conducted analysis in areas beyond my expertise by independently studying technical papers. Eventually, my analysis contributed to design changes that mitigated potential issues such as the overheating of components.

As an active member of the Grainger College of Engineering community, I have developed the necessary interpersonal skills to succeed in a dynamic work environment. As an Engineering Ambassador, I effectively communicated my passion for engineering to elementary students by presenting over twenty dynamic and engaging presentations. Finally, as an Engineering Career Services Career Peer, I developed the professionalism and leadership skills necessary to assist over one hundred engineering students in career development.

I would welcome the opportunity to speak with you and can be reached at (217) XXX-XXX and yournetid@illinois.edu. Thank you for your time and consideration.

Sincerely,

Your name