**Albert Clifford Slater**

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March 17, 2019

Sharon A. Hunter

Administrator

Production Systems Automation

1 Crozerville Road

Aston, PA 19014

**Re: Seeking Summer Engineering Internship**

Dear Ms. Sharon Hunter:

As an inquisitive and motivated mechanical engineering student at Widener University, I am writing to inquire about summer internship opportunities at Production Systems Automation. Dr. Jonathan Turner, a senior lecturer in the mechanical engineering department here at Widener, recommended your firm to me for its impressive facility and strong focus on robotics engineering. I have always been interested in the robotics and mechatronics spheres of mechanical engineering and would welcome the chance develop this curiosity into a learning experience at your organization.

My engineering knowledge and skills have prepared me to contribute to PSA’s turnkey capital projects. Over the past year, I have studied many topics directly related to dynamics, kinematics of machinery, and controls systems. During my kinematics class, I successfully led a student team in designing and automating a hardtop convertible roof design using Lego Mindstorms. This project required in-depth knowledge of degrees of freedom, four-bar linkages, the Grashof condition, and toggle positions. The most challenging aspect of this project was creating a device with the desired movements using only those the Lego Mindstorms kit provided. With hard work from all team members, the result was a fully functioning hardtop convertible roof mechanism that could open or close at the push of a button. This project reinforced my interest in learning more about kinematics and controls.

I am continually seeking new opportunities to learn, whether they be in the classroom, the lab -- and soon enough, in the workforce. Teamwork is a skill at the core of problem solving in engineering, and an internship experience would offer the chance to further develop this skill. I would welcome the opportunity to interview with your organization. Thank you for your time and consideration.

Sincerely,

Albert Clifford Slater