**Paul Yuan**

**Mechanical Engineer / Entrepreneur / Artist**

SUMMARY I am a well-rounded and meticulous engineer/designer seeking a position within an organization that will challenge and expand my skill set. I am a highly detail-oriented, focused worker with a passion for creating products and processes that provide value to others.

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EDUCATION **University of Maryland, College Park |** May 2015

*B.S. in Mechanical Engineering*

* A. James Clark School of Engineering Scholarship
* University of Maryland Honors College Citation
* Startup Shell, Creator and Entrepreneur Accelerator

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SKILLS **Key Skills:** Certified Scrum Master, Mentoring, Business Operations, Customer Relations, Sales Analysis, UX Design Fundamentals, Data Sheet Creation, Technical Writing, Sketching

**Applications:** Microsoft Office, SolidWorks, MatLab, Logic Pro X, Illustrator, HTML, CSS

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EXPERIENCE **Entrepreneurial** **Venture |** 2013 - Present

* Developed a hobby of buying and selling popular athletic footwear into a thriving and profitable business, with over $400,000 worth of merchandise sold to date
* Identified and adapted to trending styles and sales opportunities through online market research and maintained detailed records of all transactions
* Used platforms such as eBay, PayPal, StockX, and Offerup to market to a wide demographic of clientele, both locally and nationally

**Mathnasium: Mathematics Instructor |** September 2018 - August 2019

* Taught at a math enrichment center for over 100 students from K-12th grade
* Proficient in teaching math from Basic Arithmetic to Calculus II
* Held one-on-one SAT tutoring sessions

**Commissioned Art and Painting |** 2016 - 2022

* Created over 100 commissioned paintings and other artwork for customers
* Focus on realism and detail

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ENGINEERING **Engineering Design Projects**

PROJECTS *Computer-Aided Design Robotics Project* | Fall 2014

* Worked as a team of two to create a biologically-inspired robot of a gorilla that could walk 30x its body length on carpet and asphalt, autonomously
* Designed and 3D-printed a series of CAD models for the body and structure of the robot using SolidWorks
* Performed a dynamic analysis of the gait of a silverback gorilla in order to see each of the four limbs move and rotate in relation to the others
* Coded the gait onto an Arduino-Uno microcontroller, and utilized an indirect drive to power the servo motors that controlled the lower limbs

*Integrated Product Development Team* | Fall 2014

* Collaborated with a team of four engineering students to design, build, and test a system that mechanically provides lift and rotation assistance for wheelchair-users when getting in and out of bed independently
* Utilized a formal, iterative product development process to assess market feasibility, competition, existing patents, and customer preferences
* Presented final product at Capstone design exhibition to a panel of judges, professors, and end-users

*Product Redesign Team* | Spring 2013

* Performed a formal product development process to analyze and ultimately redesign a DeWalt drywall screw-gun
* Conducted a series of labs focused on product dissection, benchmarking, power, thermal management, and designing for manufacturability (DFMA)