Daniel P. Sullivan

832-640-5823 | daniel.p.sullivan@utexas.edu
36 Pinestone | Irvine, CA 92604

EDUCATION

Bachelor of Science, Mechanical Engineering **Dec 2017**

The University of Texas at Austin, GPA 3.42 / 4.0

EXPERIENCE

Edwards Lifesciences, Engineer 1 June 2019 – Present

- Drafted **Design Verification Protocol** for frequency response testing of hemodynamic monitoring products. Coordinated protocol and work instructions with external supplier
- Released **Design Verification Plan** for the creation of new hemodynamic monitoring products for Japan
- Worked with lab technicians to perform feasibility testing on hemodynamic monitoring products. Analyzed data with tolerance intervals to determine if products would meet DRD specifications.
- Organized transfer of engineering drawings from Irvine to **Thailand supplier** for manufacturing
- Maintained **SolidWorks** parts and assemblies used by drafters.
- Wrote **Python** scripts to automate workflows, perform "where-used" searches on 750 product portfolio, and gather data on 1000+ BOMs
- Performed a **costing analysis** on a portfolio of 750 products. Used data gained from Excel and Python scripts to make accurate usage and volume projections for 750-product portfolio

Edward Lifesciences, Drafter July 2019 – June 2018

- Used **SolidWorks** and **Windchill** to create hundreds of drawings and assemblies for the remediation of pressure monitoring products for Japan
- Drafted a leak test method with engineers and performed feasibility testing on leak test kits
- Assisted with mathematical and statistical analysis to determine if a Test Method Validation could be leveraged for a new test procedure
- Used cyclohexanone and solvent MEK to perform solvent-bonding and manufacture pressure monitoring products for testing
- Led the automation of team **BOM** spreadsheets by programming **Excel Macros** to manage component changes, calculate packaging configurations, and search Windchill for parts

PERSONAL PROJECTS

Inverted Pendulum Summer 2019

- Stabilized a "pendulum on a cart" system with a **PID controller** and a **LQR controller**
- Wrote **embedded C** code for a microcontroller real-time control system. The microcontroller would read rotary encoders, control motor PWM, and perform PID/LQR control calculations
- Wrote **LabVIEW**, **MATLAB**, and **Python** code for various system design tasks.

SKILLS

SolidWorks, Windchill, Engineering Drawings, MATLAB, LabVIEW, C, C++, Java, Python, Microsoft Office