DENNIS SOHN

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Profile

Driven engineer curiously fascinated by technology's footprint and trajectory. Brainstorming, prototyping, and creating new designs are at my core. There's a certain exhilaration in seeing an idea come to life and having an impact. The icing on top? Genuine relationships built with my peers and team along the way.

Experience

Stryker – Redmond, WA

Mechanical Engineer, R&D — **Dec 2019 – Present**
Associate Mechanical Engineer, R&D — **Nov 2018 – Nov 2019**

Serving on the Product Engineering Team of the R&D Department performing engineering investigations and analyses along with developing new product from premarket to release.

- Led the final development and engineering design analysis efforts to release a new Class 3 electro-mechanical medical device product.
- Designed, developed, and tested mechanical components (plastic and metal) to correct or improve existing product. Worked with local and overseas vendors to implement production.
- Developed and conducted benchmark validation testing for an early developmental stage new product involving multiple sensors. Utilized Python, CAD, and 3D printing to create tests.
- Headed cross-functional R&D projects involving root cause failure investigation and communicating technical information to stakeholders and leadership on time sensitive projects.
- Authored multiple engineering evaluation reports and research studies related to root cause identification, technical risk management, corrective action approaches, and cost savings.
- Organized department improvement initiatives by presenting on relevant engineering design guides, coordinating equipment training sessions, and setting up team building events.
- Youngest finalist in the company's annual Innovation Fair Competition (2019).

STORM Lab – Nashville, TN

Research Associate — **Feb 2016 – Jun 2018**

Academic R&D work in the Science and Technology Of Robotics in Medicine (STORM) Lab aimed at developing new and impactful surgical robots and solutions for low resource medical environments.

- Designed and produced major components of a full functioning robotic endoscope prototype.
- Developed characterization and validation tests for prototypes in both biological and artificial testing environments.
- Co-Author of two journal published papers: https://www.stormlabuk.com/research/bellowscope/

Education

Vanderbilt University — **Class of 2018**

Bachelor of Engineering, Mechanical Engineering (ABET Accredited)
Minors in Mathematics and Materials Science Engineering

- Winner of the 2017 Vanderbilt Undergraduate Research Fair

Skills

Software Languages and Tools

Python	Git
C++	Command Line
Java	Arduino
MATLAB / Octave	NI LabVIEW

Engineering Tools

PTC Creo Parametric	ANSYS Workbench FEA
Solidworks	COMSOL
Autodesk Inventor	Instron (Material Tester)
AutoCAD	Phenom (SEM Analysis)

Fabrication and Manufacturing Methods

Machining (Lathe, Mill, Bandsaw, etc.)	Plastic Injection Molding Design
Geometric Design & Tolerancing – GD&T	Tolerance Analysis and Metrology
3D Printing (FDM and SLA)	