DANIEL MCGINN

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WORK EXPERIENCE

DASSAULT SYSTÈMES | SolidWorks Product Manager
November 2019 – Present

- Currently managing a portfolio of cloud-based CAD apps including xDesign, xFrame, & xShape
- Instrumental in the development and launch of SolidWorks for Makers
- Expertise in defining and launching products, specializing in Cloud and AI/ML technologies
- Proven track record of building partnerships with senior leaders and securing agreements

DASSAULT SYSTÈMES | SolidWorks Product Definition Intern
August 2018 – May 2019

- Managed and documented 100+ customer enhancement requests for new functionality
- Researched and authored technical specifications for developers

TUFTS CEEO | Student Intern
Summer 2018 & 2019

- Designed prototypes for STEM education using LEGO Robotics, Root Robotics, & Sphero

EDUCATION

TUFTS UNIVERSITY | M.S. Mechanical Engineering
May 2019

- 3.71/4.00 GPA
- Balanced 20-30 hours per week at SolidWorks while pursuing full-time studies

TUFTS UNIVERSITY | B.S. Mechanical Engineering
May 2018

- 3.53/4.00 GPA (Magna Cum Laude)
- Minor in Engineering Management
- Engineered a fatigue testing machine for a company in India, as part of my Senior Design Project

SKILLS

CAD

- Certified SolidWorks Expert with demonstrated proficiency in advanced design and simulation techniques and comprehensive knowledge of SolidWorks functionalities
- Advanced knowledge of **3D**EXPERIENCE and ENOVIA for the effective management of design data, with hands-on experience navigating and optimizing these PLM solutions

Mechanical

- Utilized 3D Printing and Laser Cutting techniques for rapid prototyping of parts
- Adept at operating both manual and CNC machinery for fabricating custom parts
- Applied DFM/DFA principles to create precise 3D models

Electronics & Software

- Skilled in designing and integrating digital control systems for electromechanical systems
- Proficient in object-oriented programming languages, including C++, MATLAB, and Python

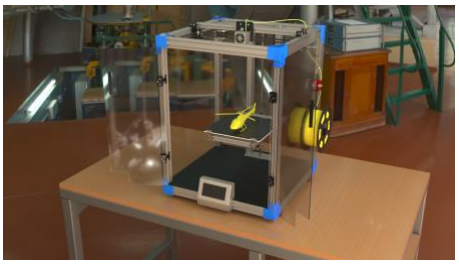
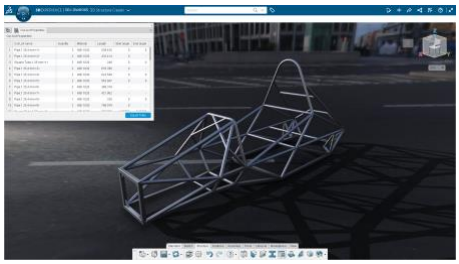
Product Management

- Knowledge of multiple functional areas including Product Management, UX, and Marketing
- Skilled in planning product roadmaps and overseeing day-to-day technical direction
- Certified in Product Management, Product Marketing, and Agile Project Management

PROJECTS

SolidWorks Cloud Apps

- Developed diverse datasets for demonstrating proper design practices across parts, assemblies, surfacing, frame design, sheet metal design, drawings, and model-based definition (MBD)
- Prepared and delivered engaging demonstrations showcasing the full spectrum of design functionality available on the **3D**EXPERIENCE Platform, highlighting advanced features such as generative design, lattice design, design of experiments (DOE), and eco-design

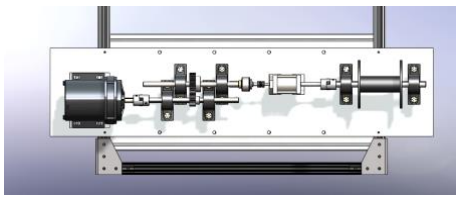


SolidWorks for Makers

- Instrumental in the development and launch of SolidWorks for Makers, a groundbreaking solution that equips makers and hobbyists around the globe with powerful, professional-grade design tools
- Awarded the 2021 Innovation Forwards Award, which celebrates the most innovative projects developed by Dassault Systèmes teams worldwide

Design for Emerging Markets

- Designed and fabricated a fatigue testing machine for a company that manufactures modular roofing tiles for village homes in India, as part of my Senior Design Project
- Designed parts and assemblies by applying DFM/DFA concepts, demonstrated adept project management skills, integrated a digital control system with multiple sensors and actuators, and conducted fabrication involving machining custom parts
- Awarded the 2018 James P. O'Leary Award for outstanding contributions in the area of design


Actuation System Iteration 1


Actuation System Iteration 2

Medical Device Patent

- In my junior year of college, I collaborated with a biomedical engineering student to invent a medical device for use in ocular surgery and file a patent
- Recognizing an issue with the current medicine injection process for treating macular degeneration, we developed a new design that would stabilize pressure in the ocular cavity