

DANIEL MCGINN

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WORK EXPERIENCE

DASSAULT SYSTÈMES | SolidWorks Product Manager

November 2019 – Present

- Expertise in defining and launching products with a focus on meeting customer needs
- Proven track record of building partnerships with senior leaders and securing agreements
- Experience collaborating with engineers, designers, and stakeholders to translate customer requirements into actionable design specifications

DASSAULT SYSTÈMES | SolidWorks Product Definition Intern

August 2018 – May 2019

- Managed and documented 100+ customer enhancement requests for new functionality
- Authored technical specifications to guide development projects for design and simulation functionality in SolidWorks

TUFTS CEE0 | Student Intern

Summer 2018 & 2019

- Researched innovative methods to integrate robotics education into classroom curricula

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

SKILLS

CAD

- Certified SolidWorks Expert with demonstrated proficiency in advanced design and simulation techniques and comprehensive knowledge of SolidWorks functionalities
- Advanced knowledge of 3DEXPERIENCE 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

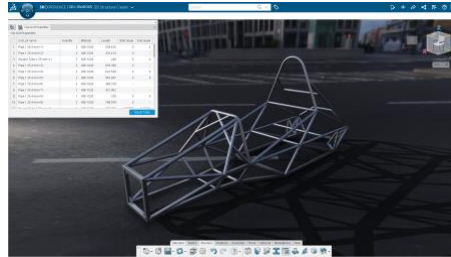
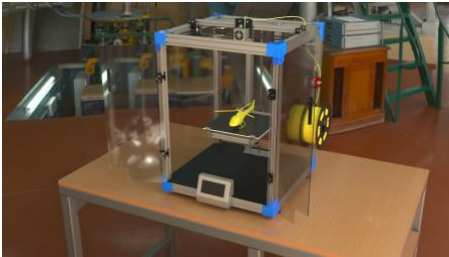
Project Management

- Effective communication skills, including the ability to present technical information clearly and persuasively to diverse audiences
- Demonstrated ability to lead cross-functional teams in the development of innovative products from concept to production

PROJECTS

SolidWorks Cloud Apps

- As a Product Manager at SolidWorks, I manage a portfolio of Cloud-Based CAD 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 3DEXPERIENCE Platform, highlighting advanced features such as generative design, lattice design, design of experiments (DOE), and eco-design

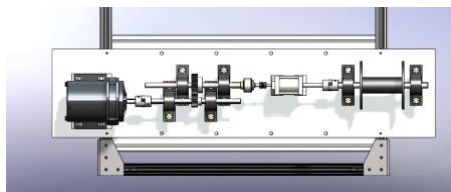


SolidWorks for Makers

- Instrumental in the development and launch of SolidWorks for Makers, a groundbreaking solution that equips makers around the globe with professional-grade design tools
- Awarded the 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 fabricated custom parts through machining processes
- Awarded the James P. O'Leary Award for outstanding contributions in the area of design



Actuation System Iteration 1



Actuation System Iteration 2

Medical Device Design

- Collaborated with a biomedical engineering student to design and patent a medical device for use in ocular surgery
- Developed a novel design for a syringe that would improve patient safety by maintaining stable pressure in the ocular cavity during medicine injections