Mark Trupiano

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Education

Graduate Certificate in Software Design & Development, University of Washington

September 2019 - June 2020 (GPA: 3.78)

- Algorithms, data structures, and systems programming fundamentals (primarily in C++ on Linux)
- Software processes, design, and testing in modern software engineering environments

Computer Science Coursework, Non-matriculated

Programming I - UW Seattle, Summer 2018 (Grade: 4.0)
Programming II - North Seattle Community College, Fall 2018 (grade: 4.0)
Using SQL and SQL Server - North Seattle Community College, Winter 2019 (Grade: 4.0)

B.S. Mechanical Engineering, University of Washington

September 2010 - June 2015 (GPA: 3.27)

- Undergraduate TA for ME123: Visualization and CAD
- Involvement in multiple medical device design projects

Skills

Object-oriented programming experience with C++ and Java

Self-taught experience with aspects of web development, GUI application development, & graphics engine development

Analysis and design of high speed and high load rotary components and assemblies

Research, design, and testing of novel medical products

Creating, maintaining, and organizing controlled and regulated technical documentation

Proficient in solid modeling, analysis, and scientific computing software such as SolidWorks, ANSYS, COMSOL & MatLab

Employment History

Mechanical Design Engineer

Creative Motion Control, LLC (October 2019 - Present)

- Design, analysis, & testing of high-strength linear actuator assemblies and components

Mechanical Design Engineer

MagnaDrive Corporation (January 2019 - October 2019)

- Design and testing of magnetism-based shaft couplings
- Automation of document control processes using the SolidWorks VBA API
- Technical document control administration

Mechanical Design Engineer

Vioguard Inc. (January 2017 - May 2018)

- Lead design, testing, and production of plastic components
- Creation and control of part and assembly documentation for an FDA approved medical device
- Developed numerical simulation for estimating light exposure in a complex closed volume

TA, Undergraduate Assistant

University of Washington (September 2011 - June 2015)

- TA/instructor/grader for mechanical engineering course, ME123: Visualization and CAD
- Computer lab instruction, teaching design principles and technical drawing within the context of SolidWorks