

Caroline Colombo

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EDUCATION

Carnegie Mellon University, Pittsburgh PA
Master of Science, Mechanical Engineering, May 2014
Bachelor of Science and Arts, Physics and Sculpture, May 2013

HIGHLIGHTS

- Multiple consumer products brought to market from initial concept sketches
- Experience with SolidWorks, CAD design, GD&T, FEA, simulations, DFMEA, stress analysis, design for manufacture and assembly, manufacturing drawings
- Experience designing to government safety standards

EMPLOYMENT

Mechanical Engineer Contractor, NanoString Technologies

Seattle, WA, April 2019 – September 2019

- Identified system inefficiencies and improved performance of technical model
- Improved communication of engineering drawings for manufacturing quality

Mechanical Engineer Contractor, Microsoft Corporation

Seattle, WA, April 2018 – December 2018

- Designed wireless charging flexible circuit board features
- Performed quality control and functional mechanical tests
- Discovered and eliminated process malfunction on factory floor
- Prepared drawings for factory production

Reactor Mechanical Engineer, Bettis Atomic Power Laboratory

Pittsburgh, PA, February 2016 – April 2018

- Performed mechanical engineering evaluations, structural analysis and design reviews associated with reactor cores and reactor heavy equipment of naval reactors
- Analyzed structural components for NIMITZ aircraft carriers SEAWOLF submarines
- Analyzed mechanical and structural components, systems, and equipment of the NIMITZ class aircraft carriers, SEAWOLF class submarines and Moored Training Ships

Drone Design Contractor, Identified Technologies

Pittsburgh, PA, August 2016 – October 2016

- Designed and built new injection molded drone body, which reduced part count and assembly time by 20% and improved seal against dust and debris
- Developed cost and durability analysis for 3D printed and injection molded parts; analysis was used by Identified to plan their next stage of product development

Product Design Mechanical Engineer, 4moms

Pittsburgh, PA, July 2014 – November 2015

- Designed custom gear box system for electrical generator on stroller that powers running lights and charges cell phones by strolling
- Designed head-rest and harness system for 4moms Infant Car Seat that eliminates user errors while complying with U.S. infant car seat safety regulations
- Developed and performed structural analysis to ensure compliance with international safety standards

SKILLS

- **Software:** ANSYS, Solidworks, Inventor, ProE, CFX, Fusion Sketchbook
- **Machining:** welding, 3D printing, laser cutting, water jet, machine and wood shop
- **Sculpture:** glassblowing, metalworking, woodworking, kinetic sculpture, mold-making