

Man Kit (Jeffrey) Cheung

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Education

Polytechnic Institute of New York University

Brooklyn, New York

B.S. Mechanical Engineering, 2013

Minor in Aerospace, GPA: 3.18

Dean's List 2012/2013

Experience

Cemtrex Inc.

Mechanical Engineer

11/20 – 09/22

- Designed plastic injection molded housing with “snap” mechanism for monitors and cameras.
- Coordinate with hardware engineers and manufacturers in China and India from design to production.
- Definite design criteria and safety considerations of the new product line.
- Simulate and test failure conditions with Solidwork simulation and Ansys.
- Made drawings to ASME Y14.5 and GD&T standards.
- Worked with hardware engineers to design an enclosure to house PCB and cable routing.
- Conduct FEA using ANSYS during the prototyping phase to refine the design.
- Designed according to BIFMA standards for human ergonomics.

AFC Industries Inc.

Mechanical Engineer (R&D)

3/14 – 11/20

- Designed over 400 custom solutions according to customer specifications using AutoCAD.
- Created parts using AutoCAD and Autodesk Inventor for manufacturing sheet metal.
- Managed multiple projects from conception to manufacturing under tight deadlines and budgets with timely delivery and manufacturing constraints in mind.
- Designed 10+ new product lines for the company, the largest of which shipped with the client's latest X-ray detectors
- Designed a new linear actuator used across all AFC products.
- Operated CNC router using BobCAD for wood and plastic.
- Created instructions and manufacturing packages to make products over multiple facilities.
- Mentored engineers on designing for manufacturing and assembly for projects.
- Led team of engineers on new research and development projects.
- Optimized parts for manufacturing and assembly. This includes time and cost-saving measures.
- Worked in large teams on more complex multi-countries projects.
- Created testing procedures for consistent quality across the different factories.

Skills

- Proficient in Microsoft Office, Excel, and Powerpoint
- Proficient in Solidworks, AutoCAD, and Autodesk Inventor
- Experience with Machining, 3D Printing, CNC machining, manufacturing process, and measurement tools such as caliper/gauges
- Experience with Matlab, Simulink, and Maple 13
- Experience with Ansys and Ansys Workbench

Activities

- Polybot Robotics Club 2010-2013
- FIRST Robotics Team 334 2006-2009
- Solidwork User Group NYC 2014-Present