Ronit Gandhi

Senior Mechanical Engineering Student

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WORK EXPERIENCE

Product Design Engineer, TDG — Sep 2019 – Aug 2020
Apple Inc. — Cupertino, California

- R&D for future Apple products
- Designed and delivered high-volume parts in complex mechanical systems
  - Processes include injection molding, CNC, stamping, and die cutting
  - Successful delivery of parts through the use of FEA, TAs, prototyping, DOE, and DFM
  - Responsible for remotely monitoring multiple sub assembly lines during build (travel restricted due to Covid-19)
- Investigated thermal system architectures and product feature feasibility
  - Improved thermal simulation preparation process lead time by 40% for a 650+ body system
  - Delivered design direction to module owners based on thermal simulation results
- Coordinated with domestic and international vendors for investigations, DFM, and FAI/CPK data review
- Collaborated with cross functional teams including optics, manufacturing, electrical engineering, reliability, soft goods, thermals, polymers, and video engineering
- Filed a patent as the main author

Mechanical Designer — Jan 2019 – Apr 2019
Nymi Inc. — Toronto, Ontario

- Responsible for the water proofing of a smart wristband that can sense ECG and scan fingerprints
  - Redesigned assembly adhesion method to achieve IP65 rating and improved production yield from 70% to 99%
  - Designed fixtures with Poka-Yoke mechanisms that assemble heat activated films to injection molded parts
  - Designed intricate die cut and kiss cut profiles for specialized films with DFM and DFA considerations
  - Developed a non-destructive process for testing waterproofing seals without the use of water
- Coordinated with domestic and international vendors
- Developed work process instructions and DFMEA documents

Product Designer / Manufacturing Engineer — May 2018 – Aug 2018
ShadeFX Canopies — Milton, Ontario

- Designed and analyzed aluminum extrusion parts on Solidworks to validate feasibility of new product lines
- Designed and prototyped fixtures using existing parts to help speed up a bottleneck in the manufacturing process
- Designed a new plastic extrusion part which would decrease assembly time by 20%

Project Engineer — Sep 2017 – Dec 2017
Mitchell Plastics — Kitchener, Ontario

- Aided in the development and production of injection molded automotive parts through root cause analysis
- Aided in continuous improvement of products by suggesting engineering changes with DFA and DFM considerations
- Performed root cause analysis and created prototypes to test and resolve major customer concerns

SKILLS

Software	Siemens NX (1500+ Hrs) • Solidworks (750+ hrs) • AutoCAD (1200+ Hrs)
Processes	Injection Molding • CNC • Stamping • Die Cutting • Kiss Cutting • Extrusion • 3D Printing
Other	DFM • DFA • DOE • DFMEA • Root Cause Analysis • Prototyping

EDUCATION

Bachelor of Applied Science — Expected graduation 2021
Mechanical Engineering with Management Sciences Option — University of Waterloo
GPA: 3.70 — Waterloo, Ontario