

# J. SCOTT WHEELER

[jscottwheeler@gmail.com](mailto:jscottwheeler@gmail.com) | Mobile: (443) 528-3081

Product Engineer | <http://www.linkedin.com/in/johnscottwheeler/>

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## EDUCATION

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**University of Maryland, College Park – Mechanical Engineering – B.S.** 2009 – 2013

**University of Florida, Gainesville – Mechanical Engineering – M.S.** 2013 – 2015

Solidworks 3D Modeling (CSWA & CSWP), and Simulation

Lean Six Sigma Green Belt, Design for Six Sigma, CeTOL 6σ, and Minitab Training

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## PROFESSIONAL EXPERIENCE

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BECTON DICKINSON & CO.

May 2020 – May 2022

### Senior Mechanical R&D Engineer

- **Injection-Molded Plastic Consumable Design for Six Sigma Manufacturability**
- **Product Development Process** from **Ideation-Conceptualization** through **Concept Development of Functional Geometry** that satisfied the **Requirements and Constraints** outlined by **Project Shareholders** and passed clinical feasibility studies.

OCCIPITAL INC – PARACOSM DIV., GAINESVILLE, FL

Apr. 2018 – Nov. 2019

### Mechanical Engineer

- Coordinated the **New Product Introduction (NPI)** for a complex electromechanical device
- Orchestrated a redesign effort to improve the **Design for Manufacturability & Assembly (DFMA)** improving assembly time and significantly reducing the complexity of assembly.
- Utilized my background in design and development to deliver key components and assemblies
- **Sourced**, modeled, and fabricated prototype parts and assemblies from over 40+ vendors.
- **Reverse Engineered** the original PX-80 and compiled a complete BOM with 400+ parts.
- Produced **Documentation Packages** to source parts & electromechanical assembly at contract manufacturers.

UNIVERSITY OF FLORIDA FABRICATION LAB – GAINESVILLE, FL

### Machine Operator

Jan. 2018 – Dec. 2018

- Responsible for the **Setup, CAM Programming, and Operation of Fabrication Equipment**
- Worked with customers to determine the requirements of their fabrication projects

MEDICAL TOOL & TECHNOLOGY, LLC., GAINESVILLE, FL.

Aug. 2014 – Jan. 2018

### Product Design and Development Engineer

- Assisted **Early Stage Start-ups** in the medical and consumer product fields as a contractor
- Generated **Product Concepts**, 3D Modeled clients designs, Fabricated Prototypes, Sourced Manufacturing, and Coordinated Product Development.

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## ADDITIONAL PROFESSIONAL ACTIVITIES

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### Freelance Mechanical R&D Engineer

Aug. 2022 – Mar. 2023

- Developed a personal approach to the **Product Development Process (PDP)** and the unification of Engineering Concepts and **First Principles** learned thus far in my career.
- Developed a personal ideology on how to approach **Complex Development Projects** through the structured definition of **Requirements, Constraints, Goals**, needs of all **Shareholders**, and the capabilities of available resources.