CLINTON WILLIAMS

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Engineering professional with 7+ years of experience driving innovation. Enthusiastic about developing teams that embrace a growth mindset. Recommended for Key Initiative Projects by Senior Management. Constantly curious leader with contagious innovative thinking, and passion for fostering cross-functional collaboration to meet aggressive goals.

WORK EXPERIENCE

MilliporeSigma, Danvers, MA

Leading supplier of biotechnology and pharmaceutical solutions for global customers.

R&D Mechanical Engineer III Aug 2021 – Present

- Prototype and realize robotic and automation fixturing for current and future Industry 4.0 manufacturing to speed up manufacturing for rapidly growing industry
- Driving manufacturing innovation by autonomously finding vendors with start-of-the-art technologies in thermal bonding and vision systems for increased process and quality control
- UR robot path planning using teach pendants

Manufacturing Engineer II Oct 2020 – Aug 2021

- **Team lead responsible for designing and implementing lean processes to double key product line throughput** in order to support COVID-19 vaccination supply chain and other critical therapeutics
- **Reduced process cycle time by 20%** after first two week sprint
- **Independently identified and built digital solutions** to monitor real-time KPIs including job output, live production dashboarding, employee water levels, and equipment downtime to rapidly convert to a data driven organization (leveraging Microsoft software suite including Power Apps and PowerBi)

Production Supervisor July 2019 – Oct 2020

- Led team of **24 Operators** manufacturing in a cleanroom, GMP environment to produce single use assemblies for drug manufacturing pharmaceutical to customer demand
- Team goals included applying **analytical thinking** to improve daily performance and productivity by streamlining communication between operational teams

Product/Design Engineer Oct 2015 – July 2019

- Independently designed, prototyped, identified new vendors with unique capabilities, and **pitched novel packaging solution** using modular design to reduce customer reject rate and standardize packaging footprint to enable automation
- Prepared product for **patent application**
- **Collaborated with major biopharma customer's process owners** to identify product risk areas at their site and design solutions to reduce defects
- **Optimized SKUs by 50% for NPI by utilizing historical customer order data** to meet customer requirements and support product line growth of 35% year-on-year
- Achieved **savings of $50k+** in packaging improvements, material cost reduction, and efficient processing times

Insulet Corporation, Billerica, MA

Supplier of insulin infusion systems for individuals diagnosed with Type I and II diabetes.

R&D Engineering Co-op July – Dec 2014

- Autonomously designed analytical simulation and testing fixture to quantify efficiency improvements in efforts to reduce cost for next-gen product
- Built Monte Carlo simulation using LabView to determine optimal position and sizing of electromechanical switches

NxStage, Lawrence, MA

Product Engineering Co-op July – Dec 2013

- Autonomously designed analytical simulation and testing fixture to quantify efficiency improvements in efforts to reduce cost for next-gen product
- Performed Gage R&R studies using Minitab on next-generation Cycler to validate volumetric outputs within company specifications and systematically documented results for FDA approval
- Conducted environmental thermal testing on Cycler to remove occlusion errors in response to a CAPA

EDUCATION

Expected May 2023	**MSc, Worcester Polytechnic Institute** - Worcester, MA Mechatronics, Robotics, and Automation Engineering
May 2015	**BSc, Northeastern University** - Boston, MA Mechanical Engineering Major with Biomechanical Engineering minor
May 2010	**Antilles School** - St. Thomas, US Virgin Islands

SKILLS

IT: SolidWorks, MatLab, Python, PowerApps, Microsoft Office, LabView Visual Basic,
Management: Lean Six Sigma Management, Systems Engineering

AFFILIATIONS & MEMBERSHIP

Black in Robotics	May 2021 – Present
National Society of Black Engineers - Boston	May 2021 – Present
IEEE	Dec 2020 - Current
IEEE Robotics and Automation Society	Dec 2020 – Current
INCOSE	Jul 2021 – Current
Black Engineering Student Society	Sep 2010 – May 2011

LICENSES & CERTIFICATIONS

INCOSE Associate Systems Engineering Professional (ASEP)
Universal Robots E-SeriesCore Track

INTERESTS

Robotics & Mechatronics – Space technologies, Artificial Intelligence, Lean methodology
Creator of a book review blog