**Frank W.C. Johnson**

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**CAREER OBJECTIVE**

Versatile industrial engineer with 5+ years of experience in hardware development and technical program management. Currently pursuing master’s in data Analytics, blending domain expertise with cutting-edge machine learning principles to create innovative cloud solutions. Passionate about leveraging data science and engineering to enhance operational efficiency and optimize manufacturing processes.

**QUALIFICATIONS**

**Languages:** Python, Julia, SQL, R

**Platforms / Libraries:** Azure AI ML Studio, Azure DevOps, PyTorch, Tensorflow, Pandas, Keras, Scikit-Learn

**Analytics Skills:** Data Wrangling, Mining, & Visualization, Predictive Modeling, Statistical Quality Control

**Engineering Methodologies:** Process Engineering, Design for Manufacturability, FMEA/Root Cause Analysis, Supplier/Factory Management, Product Lifecycle Management, LEAN Manufacturing, Agile Methodology

**WORK EXPERIENCE**

**Microsoft Azure Hardware Systems & Infrastructure**

Manufacturing Engineer II | *March 2019-Present*

* Spearheading initiatives to optimize quality, lead time, and cost of global ITPQ rack supply chain
* Drove sheet metal material testing and manufacturing process control reviews to unblock line production across supplier network and **produce** **$8 million** in downstream production **savings**
* Managed reconfiguration of global storage/compute/GPU node production lines to **decrease** **inventory** buffer size across vendor supply chain by **20%**
* Led cross-functional development of Power BI forecasting tool to optimize workload distribution of **400+ programs** across factory ops, management, and test engineering teams. Consolidated program schedule data from SQL queries and utilized Python analysis to **improve** **forecasting accuracy by 30%.**
* Created PFMEA process to proactively identify and mitigate serviceability and quality issues impacting latest generation Azure hardware.
* Reduced datacenter delivery tickets by **13%** through the implementation of Azure DevOps RCA system

**Georgia Tech Research Institute**

Industrial Assessment Center (IAC) Engineer | *August 2016-March 2019*

* Collaborated with dynamic research team to deliver technical analysis reports to clients with recommendations to optimize productivity across multi-industry manufacturing clients
* Implemented operational improvements resulting in an average of **$130k** in **cost savings** per factory
* Designed introductory IAC course for Atlanta Public School students emphasizing technical report writing, engineering, and financial valuation concepts

**EDUCATION**

**University of Central Florida,** College of Engineering & Computer Science

Master of Science in Big Data Analytics (GPA:*4.0/4.0*) May 2025

**Georgia Institute of Technology,** College of Engineering

Bachelor of Science in Industrial and Systems Engineering |*December 2018*