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. Passionate about leveraging data science and engineering practices 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*