

## SUMMARY

Mechanical engineer with subject matter expertise in data analytics, business intelligence and cost engineering

## PROFESSTIONAL EXPERIENCE

Bilfinger North America Inc.

### **Business Intelligence Manager**

Pittsburgh, PA (remote)

Aug 2021 – present

- Lead brand-new Data Analytics department focused on bringing data and statistics to decision-makers
- Implemented statistical models to inform regional managers on locations where there is likely to be safety incidents, recommend potential customers that will pull-through to become key accounts, and determine corporate targets around HSEQ, Operations, and Sales
- Created business intelligence strategy with the goal to drive data into the daily lives of our decision-makers, throughout all levels of the company

### **CEO Business Assistant**

Mannheim, Germany

Oct 2019 – Feb 2020

- Selected by the Talent Management Program for a job rotation as business assistant to Bilfinger SE's global CEO Tom Blades. Located in Mannheim, Germany, the role focused on global initiatives to bring to North America, validating internal project investment proposals, and market analysis.
- Assigned to replicate a business unit's service model that will increase margin and top-line growth. The plan developed during the rotation is expected to bring 17% CM1 with YoY revenue > \$100M.

### **Cost Engineer**

St. Louis, MO

May 2016 – Aug 2021

- Contracted by large manufacturing companies on CapEx projects. Projects range \$10 - \$70 million. Advised on project scope, partner pricing validation, funding estimates, controlling WBS structure, trending, forecasting, and change management reconciliation. Projects continually execute below funding and have released \$17 million back to client leadership for funding other CapEx projects.
- Contracted for project management services in procurement, tracking, receiving, and storing owner provided equipment for CapEx project teams, goal to maintain project schedule and mitigate delays

### **Construction Estimator**

St. Louis, MO

Apr 2014 – May 2016

- Performed fixed-price and cost-plus proposals for Bilfinger's traveling construction team. Efforts awarded Bilfinger \$8 million in construction scope
- Automated internal estimating work processes saving Bilfinger \$50k, annually

## EDUCATION

Carnegie Mellon University  
Master of Science, Business Intelligence and Data Analytics

Expected: Dec 2022

Joint Program University of Missouri- St. Louis/Washington University in St. Louis  
Bachelor of Science, Mechanical Engineering

Graduated: May 2016

### *Advanced Coursework:*

Artificial Intelligence	Alternative Energy Power Generation Methods
Data Mining and Machine Learning	Privacy in the Digital Age
Unstructured Data Analytics	Organizational Design and Implementation
Advanced Business Analytics	

## TECHNICAL SKILLS & KNOWLEDGE

**Software:** **Programming:** R, Python, SQL, VBA, MATLAB; **Visualization:** Power BI, Tableau, ArcGIS; **ERP:** SAP; **Microsoft:** Excel (master), Project, Teams; **Estimating:** RIB iTWO, Sage, RSMeans, NECA, MC<sup>2</sup>

**Methods:** Lean Integrated Project Delivery; LEED; SCRUM; Agile; Project Cost Management; Digital Twin; Hands on Tool Time