Joseph Michael Cauley

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SUMMARY

5+ years of experience creating solutions with programming and automation with an emphasis on the .NET tech stack. Dependable and organized with a passion to learn and to be challenged. Trained in mathematics, data analytics, and problem-solving methodology, I create innovative solutions that solve problems and exceed expectations.

I currently work in the aerospace manufacturing industry at PCC Airfoils as the IT Supervisor (Acting Manager) but my passion is development. Aerospace took a hard hit during the economic decline brought on by COVID and to maximize my value, I took on this role. My working experience spans the full Microsoft technology stack, Allen Bradley tools for automation in manufacturing, and Inductive Automation's Ignition. Relative to my peers, I feel that I spend more time planning solution architecture because I believe that in all the tasks we do there is both a way to do things and a better way to do things; as important as it is to get the job done and on time, it is AT LEAST as important that the result be one that is maintainable and extendable such that a future developer can work confidently in the code we leave behind.

KEY SKILLS

- **Backend:** C#, Python, T-SQL, VBA
- **Frontend:** Blazor, HTML, CSS, Bootstrap, WPF
- **Database Design:** Relational (MS-SQL)
- **DevOps:** DevOps, CI/CD Pipelines, Unit Tests
- **Source Control:** Git, TFVC
- **Data:** Power BI, SSRS, SAS

PROFESSIONAL HISTORY

Automation Programmer (Acting IT Supervisor)

PCC Airfoils, LLC — January 2016 – Present

- Introduced and implemented Ignition HMI software to replace HMIs at a core manufacturing process reducing unplanned downtime and maintaining corporate security and compliance requirements.
- Researched and implemented algorithm using linear algebra and the properties of vectors to automate and reduce layout time spent to clean airfoil profile scan data captured on a CMM by >95%.
- Designed Engineer's Toolbox application applying appropriate statistical algorithms to significantly reduce overhead of common tasks such as shipping predictions, yield analysis and dimensional analysis.
- Awarded non-periodic incentive bonus for high performance in 2018 and two Long Term Incentive Program awards in 2019.
- Improved quality system's checks by leveraging T-SQL and VBA to reduce time required to check quality conformance by 95%.
- Automated concession submittal process and organized the 'pending customer response' inventory resulting in over $500,000 dollars increased annual sales.

EDUCATION

Western Governor's University — 2018 – 2019

M.S. Data Analytics

- Experience with R, SAS, python, tableau, and statistics.
- Capstone: developed random forest classifier that identified a high-risk sub-process initiating an investigation to reduce annual cost by $197,750 at a manufacturing facility.

Valdosta State University — 2010 – 2013

B.S. Applied Mathematics

- Employed as networking assistant / IT technician and math tutor.
- Acted as president of local chapter of Pi Mu Epsilon.
- Awarded a mathematical achievement award in 2012.