Justin Pate

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PROFESSIONAL EXPERIENCE

Triumph Aerostructures – Vought Aircraft Division/ Grand Prairie and Red Oak   *January 2011 – Jan 2013 and July 2017-Present*
Quality Engineer, Metrology Lead, Boeing Commercial Programs, Bombardier, and Embraer, 525,etc..

- Team Leader for Applied digital Technologies
- Managed cross functional events and coordinated build process improvement events through digital inspection and tooling improvement.
- Project Lead on multiple automation efforts to streamline metrics and aid production in cost and quality initiatives
- Perform SPC analysis for 6 sigma standards. Designed custom SPC application for multiple sites.
- Serving as a Quality Engineer for 747-8, Embraer, Bombardier and other programs with focus on product dimensional integrity.
- Designed key metrics for multiple site across enterprise platforms such as Qlik, SQL reporting services and other web based applications.
- Utilize metrology technologies such as laser trackers, portable arms, and photogrammetry for part and tooling investigation.
- Supervise recurring end item dimensional inspections of 747-8 fuselage panels using a Romer arm and PowerInspect software.
- Trained over 30 personnel in metrology and inspection processes resulting in a capable production inspection team.
- Manage CATIA V5 VBA macros and tools used to process and analyze 3D product data.

Contract Employment Jan 2013-July 2017

Chipton Ross for Triumph Aerostructures Vought Aircraft Division--Metrology Lead/Quality Engineer/Application Development

- Served as an Applied Digital Technology lead.
- Managed corrective action teams on special assignments when an technical solution was required.
- Root cause corrective action using 5-Why and Apollo methods. Reality Charting sometimes required.
- Designed custom manpower application for site wide management of skill sets and unit assignments.
- Lead quality engineer for Empennage section of the 747-8. Implemented Corrective actions for many positive impacts.
- Designed statistical process control automated data collection system for multiple machine measurements and process tracking.

AIT for Triumph Aerostructures Red Oak TX--Tooling/Metrology Lead/Quality Engineer/Application Development

- Utilize Laser tracker and Spatial Analyzer software to fabricate and set precision tooling details
- Write Procedures and training document on VTUBE for tubular inspection cell.
- Provide Technical Support and Troubleshoot for a fleet of 8 trackers and mobile work stations.
- Design Manufacturing Execution System for Interim Shop tracking
- Prepare and manage Quality Systems for AS9100 Certification approval for Aerospace Customers

PDS Technical Services – Bell Helicopter--*CMM Programmer/Layout Engineer, V22 and other Drive Systems Center Programs*

- Utilize Zeiss CMM in combination with Calypso. Ensuring data collection methods are consistent for SPC analysis.
- Train Production in the use of Various Metrology Equipment.
- Apply transformation to machines for best fit of Forging and Casting variations.

PDS Technical Services   **December** *2008 – January 2011*
Quality/Manufacturing Engineer (Contract), Triumph Aerostructures - Vought Aircraft Division

- Prepared tooling inspection models for 747-8 & 767 product lines using CATIA V4 & V5. Collaborated with Tool Design and Tool Manufacturing groups to develop effective fixturing concepts. The resulting tooling improvements stabilized manufacturing process variations and improved product integrity.
- Authored manufacturing and quality procedures in accordance with customer requirements. Facilitated the procedure approval process as well as implementation on the shop floor.
- Developed efficiency tracking software to track the labor versus manufacturing operations hours for all manufacturing supervisors. The software enabled higher visibility of workforce efficiency.

High Impact Solutions   **January 2001-July 2003 and November** *2007 – December 2008*
Software Developer / Project Manager

- Effectively transformed customer requirements into user friendly, productive software applications.
- Designed and implemented custom databases for multiple industries including engineering, fiber optic cable, …etc.
- Managed team of programmers for an effective combined solution that met the customers needs.

United States Air Force   *July 2003 – November 2007*
Meteorologist / Database Developer

- Section Manger during final year in the armed forces managing team of 15-20 people across multiple shifts and geographic responsibilities.
- Developed a personnel database that managed over 300 member training records. Received 2005 Airman of the Year award in recognition of project success.
- Collected, analyzed, and disseminated atmospheric and space environmental information and forecasts.
- Trained and supervised subordinate personnel, managed operations, and adapted resources to meet mission requirements.

EDUCATION

American Military University (APUS), Charles Town, West Virginia
B.S. Information Technology Management, 2007
Candidate for **Masters in Applied Data Science** program at **Syracuse University** (Spring 2020)

ADDITIONAL TECHNICAL SKILLS

- CATIA V4/V5 (1500 Hrs)
- Qlik
- Spatial Analyzer
- Verisurf
- PowerInspect
- Laser Trackers (API, Faro,
- PCMM (Faro, Romer)
- CAPPS NC
- V-Stars
- Calypso 5.4/ZEISS
- Database Management
- Software Development

Programming Languages: ASP.NET, VB.NET, VB6, MSSQL, HTML, JAVA, CATVBA, Oracle 9g-11g, Visual studio 2005-2017