JJ | John J. Biel-Goebel
Technical Leader & Designer

Address 5614 Oakmont Ave.
Bethesda, Maryland

Contact ideaguy@jjbiel-goebel.com
386-290-8749

Experienced, Problem-Solving, Innovative

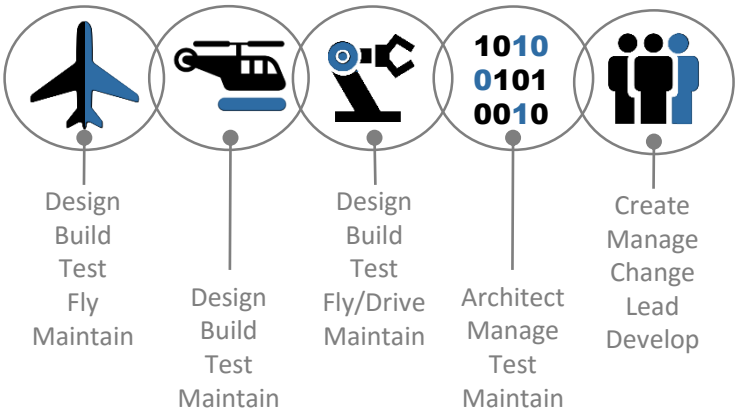
I am an expert in manufacturing, operations, robotic systems, aerospace systems, structures design, controls design, mechanical systems design & rapid prototyping.

Improve your team productivity. I am a process oriented problem solver who has 15+ years of experience working with diverse teams to meet and far exceed expectations. I am also a leader who can communicate with team members, suppliers and customers across the lifecycle to move your metrics.

Increase your innovation. I am an engineer with extreme creativity, who can digest project requirements and turn them into elegant functioning products for your customers. I combine experience from a variety of industries with a tenacious work ethic to tirelessly pursue simplicity.

Deliver when expected. I have lead teams, lead programs, owned schedules and maintained stakeholder expectations. I understand the importance of following through on agreements and doing what it takes to get the job done.

SPECIALTIES



EDUCATION

M.S. Engineering Management 05/2012 Drexel University. Philadelphia, PA
M.S. Systems Engineering & Quality 11/2007 National Graduate School. Falmouth, MA
M.S. Materials Engineering 05/2012 Drexel University. Philadelphia, PA
B.S. Aerospace Engineering 05/2002 Embry-Riddle Aeronautical University. Daytona Beach, FL

CERTIFICATES

Six Sigma Black Belt 11/2007
Dale Carnegie Effective Communication 12/2005
FAA Commercial Multi Engine Pilot 01/2004
FAA Airframe & Power Plant Maintainer License 08/2003
FCC Marine Radio Operator Permit 12/2003
FCC General Radiotelephone Operator Permit 12/2003

WORK EXPERIENCE | Over 15 Years

Program Manager: CATT Lab | **University of Maryland**
08/2013 to Present
Multi-site team made up of over 80 full and part time programmers working on industry leading transportation and big data visualization web tools.

- Migrated lab from startup business model to mid-size business model.
- Managed IT organization, agile software development, software load testing and research activities.
- Improved on-time delivery from 2 months late to 1 week early, product quality from using customers as testers to standing up an in house quality team, moved lab from SVN/Trac to GIT/Jira and put in place continuous integration servers with document configuration controls.
- Direct transition from relational PostgreSQL to Hadoop, from no redundant capability to multisite 24/7 SLA capability.
- Lead staff, hiring / firing, performance reviews, individual growth, team dynamics and culture change.

Engineering Lead | **Boeing**
04/2010 – 08/2013
Multi-team, multi-company $20mil plus engineering redesign, tool design and production support project.

- Managed schedules, costs accounts, performance and task assignments for 3 projects ranging from 5 -14 person international team.
- Managed product data, change management, first time quality, suppliers, quality and tooling integration for over 1000 parts.

Functional Lead | **Boeing**
01/2008 – 04/2010
Multi-site team made up of senior level subject matter experts and reported to team of executives and VP's

- Documented Boeing Defense Systems' Mechanical/ Structural common Design process that was flowed out to over 30,000 engineers.
- Streamlined Boeing Defense System's design tools to reduce IT spending by over $10mil annually.

Design Engineer| **Boeing**
07/2004 – 01/2008
Selected to be part of high performance quick response team to support programs in need of stop gap multi-disciplined engineers

- Supported military large fixed wing aircraft integration and design for manufacturing efforts to enable programs to recover cost and schedule while increasing their production rates and first time quality metrics.
- Completed work as a designer, structural analyst, loads engineer, test lead, damage tolerance analyst and process designer.
- Programs include: 747, 787, 737, MMA, 767, B1, Chinook and unnamable products.

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KEY EXPERIENCE | Things I am Passionate About

Aviation / Robotics

- Studied and resolved complex aviation technical and operational issues.
- Developed conceptual designs based on 14CFR Part 1, 25, 121, 135 and Part 77.
- Performed requirements modeling, definition validation and reliability, suitability, and operability analyses.
- Ability to design, plan, build, test, qualify, fly and maintain aircraft, aircraft systems, power plants and avionics.
- Assisted with control, telemetry, and visualization software development.
- Created test plans, conducted safety of flight tests, documented results and analyzed findings.
- Built several semi autonomous vehicles for various competitions.

Design / Build

- 18,000+ hours of Design experience. 500 hr Repair and Stress Analysis.
- Hands-on expertise with Product Lifecycle Management (PLM) tools: ENOVIA 6,000 hrs, Teamcenter Engineering 10,000 Hrs.
- Built control systems, wire harnesses, sensor packages and installed, maintained and trouble shot electrical and data systems for over a dozen for unmanned vehicles. .
- Created dozens of CAD/CAM solutions for medium and large CNC machines and able to write G code for CAM tools.
- Machinist: Mill, Lathe, CNC, additive manufacturing (3D printing).
- Hand lay up of carbon, glass and Kevlar for test article and flight worthy repair.

Systems Engineering

- Documented over 180 processes for several design and analysis tool suites.
- Completed multiple rounds of requirements analysis, functional decomposition and allocation, systems synthesis & integration, verification and validation, systems analysis, and modeling and simulation.

Program Management

- Lead three multi-million multi-year projects.
- Lead teams with 5-14 direct reports and 6-40 indirect reports.
- Managed and been held accountable for budget, schedule and quality
- Participated in hiring and firing activities

HOBBIES & INTERESTS | Changing the World

FIRST robotics mentor for several high schools
Muscular Dystrophy Association Camp Counselor
Play ice and roller hockey, football and ultimate Frisbee
Painting and inventing

SKILLS & TOOLS | Knowledge I Bring to the Table

Design	●●●●●
Composites	●●●○○
Sheetmetal	●●●●●
Machining	●●●●●
3D Printing	●●●●○
Reliability & Maintainability	●●●●●
DFMA	●●●●●
3D modeling	●●●●●
Catia V4, Catia V5	●●●●●
Inventor	●●●○○
Solid Works	●●●○○
Structural Analysis	●●○○○
NASTRAN / PATRAN / ABAQUS	●●○○○
Product Data Management	●●●●○
Team Center	●●●●●
Enovia	●●●●●
Fabrication	●●●●○
Manufacturing Engineering	●●●●●
Operations Support	●●●●●
Technical Documentation	●●●●●
Multi-Axel drives	●●●●●
Mecanum drives	●●●○○
Tank drives	●●●●●
Linear actuation systems	●●●●○
Rotary actuation systems	●●●●○
Pneumatic Systems	●●●○○
Labview	●●○○○
RobotC	●●○○○
Agile / Scrum / Kanban	●●●●○
Systems Architecture	●●●●○
Hadoop	●●●●○
Trac	●●●●○
Jira	●●●●●
SVN	●●●○○
GIT	●●●●●
Confluence	●●●●●
Wordpress	●●●●●
Project Management	●●●●○
Systems Engineering	●●●●●
Integrated Scheduling/Planning	●●●●●
Supplier Management	●●●●●
Risk Management	●●●●●
First Time Corrective Action	●●●●●
Process Modeling	●●●●●
Earned Value Management	●●●●●
Technology Development	●●●●●
Communications Planning	●●●○○
CPES	●●●○○
SharePoint	●●●●●
MS Office, Project, Visio	●●●●●
Lean Engineering	●●●●●
Test Planning	●●●●●
DOORS	●●●○○
BORIS	●●●●○