

Blake Fulgini

Mechanical Engineer

Team-player mechanical engineer with 8+ years of experience. Seeking to deliver engineering excellence for Lockheed Martin. At Northrop Grumman, cut costs 22% department-wide through better u-shaped cell layout. Instrumental in winning the re-compete for over \$2.2B in contracts.

Experience

2016 - Manufacturing Engineer

Northrop Grumman Aerospace Systems

- Designed manufacturing processes, procedures, and cell layouts, including equipment installation, machining, material handling, and assembly.
- Redesigned u-shaped cell production layout across entire department. Result: cut costs by 22% and slashed lead times by 20% over prior layout.
- Implemented a factory-wide Poka-Yoke drive that cut defects by 30% and lowered rework by 23%. Customer satisfaction scores rose by 35%.
- Led employee-idea program that reduced costs to the customer by 15% facility-wide. Result: facility won the re-compete for \$2.2 billion in contracts.

2011 - Manufacturing Engineer

Raytheon

- Performed manufacturing engineering duties, including collaborating with cross-functional teams to develop and implement fabrication layouts and processes.
- Redesigned material flow in Metal Fab. Slashed material handling 40%.
- Led trainings that raised Lean buy-in 38%.
- Collaborated with IT to develop real-time production metrics system in the cells. Result: team members raised their own adherence to targets by 30%.

2010 - Freelance Mechanical Engineer

- 2011
- Designed a remote-controlled forklift to a customer's specifications.
 - Developed actuators for automated seed-sowing robot.
 - Assisted with design of miniaturized conveyor-belt system.
 - Used CAD to design an automatic coconut scraper.
 - Completed all freelance projects 15% under budget.

Education

2006 - BS Mechanical Engineering, California Polytechnic

- Excelled in manufacturing production design classes.
- Pursued a passion for cell layout coursework.
- Created a senior project in Total Productive Maintenance.
- Wrote weekly mechanical engineering articles in The Poly Post.

License

California Mechanical Engineer License #01234

Additional Activities

- Member, ASME
- Delivered presentation on Improvements Kata at IMECE Conference 2018.
- Article Continuous Adjustment in Dynamic Systems published in UGears News.
- My article Efficient Fluid Power was linked to by ME Mechanical.
- Received 2 CA State Gold Medals for smokehouse design.

Personal Info

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Skills

manufacturing production design



Lean manufacturing



equipment installation layout



workflow development



material handling layout



leadership,



communication



collaboration



time management



Award

Led team that received the 2017 Shingo Silver Medallion.