



James Wagner
Weatherford, TX: willing to relocate
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203.668.3904



SUMMARY

Engineering Manager, Inventor, Mentor, and passionate about solving very complex problems to make the world a better place. Offering 20+ years of experience developing robotic machinery to fabricate microchips, fighter-jet engines, and twin-turbocharged carbon-fiber hypercars.

EDUCATION

Master of Business Administration: Operations 2000

Yale University (GMAT: 710 97th percentile; Distinction in Economics & Game Theory)

Bachelor of Science in Mechanical Engineering with Aerospace Focus 1995

Virginia Tech (3.7/4.0 in major)

EXPERIENCE

Mechanical Engineer, CMC Steel, Martinsburg, WV 2024

- EPC Engineering of \$655M Steel Mill construction project
- Achieved average of \$250,000 per month in cost savings in design phase

Director of Engineering, Supercar Engineering, Palm Beach, FL 2020 - 2024

- Engineering Consulting for performance vehicles
- Developing distribution for exotic vehicles in Asia and Middle-East
- Volunteer work assisting victims of Human Trafficking with legal efforts
- **Patent-Pending**: Waste Liquid Metal Heat as Source for Electricity Generation

Senior Engineer & Task Lead, Belcan (for ASML & P-W) Palm Beach, FL 2015 - 2020

- ***Achieved 25% overlay improvement and simultaneous 92% cost savings*** on Slider assembly. A multi-variable win from a completely different design philosophy (eliminating components and streamlining load paths).
- Technical design lead of tooling and plant upgrades for the production of the Extreme Ultraviolet Microchip Manufacturing Machines and the source laser.
- Leading team of 3-7 engineers for NX conversion of extreme ultraviolet laser.
- Jet engine test equipment design including F35 inlet ice formation

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Senior Design Engineer & Task Lead, ASML Wilton, CT 2012-2015

- ***In 4-days flat, designed and built*** a hoist/balancing system for a 750lb Optical Flat (the only such flat known to exist) to solve a deep-vacuum-induced creep/bending issue in the principal moving part in microchip manufacturing.
- Designing, mistakeproofing, and releasing tooling for microchip machines.
- Operating SAP, Teamcenter, PowerPoint and Siemens NX 7.5 design and manufacturing systems to achieve six-sigma quality at micron levels of precision.
- Developed training program and trained 150 engineers on use of Siemens NX.

Director of Engineering, Mosler Automotive, Palm Beach Gardens, FL 2004-2011

- Managed team of 5 engineers and 3 production supervisors to design and manufacture America's only street legal composite chassis/body hypercar.
- Top-level design of numerous assemblies including instrumentation, seating, cooling, power-generation, and exterior design in Siemens NX7.5(Unigraphics).
- Utilization of DFM concepts, Lean Manufacturing, and global sourcing.
- Invented a powerplant concept that allowed the certification of an 838hp twinturbo for \$8000 in testing rather than the typical \$200,000.
- Created and implemented a quality and throughput incentive/bonus system.

CTO/Entrepreneur, Wagner Engineering, Wallingford, CT 1999-2004

- Raised \$2million in venture capital, and managed the development budget.
- Managed a team of engineers and fabricators developing patented technology.
- Presentations to managers and CEOs of including Ford, GM, and the U.S. Army.
- *Earned 3 United States Patents.*
- Sold the technology to an automotive Tier-1 supplier, Metaldyne.

VOLUNTEERING

- FIRST Robotics Mentor - Teach High School students about robotics.
- Kids Racing for Life – 'Big Brother' taking ill kids on fast laps on a racetrack.
- Raising awareness of Human Trafficking & inventing statistical solutions

AWARDS AND PUBLICATIONS

- Society of Automotive Engineers - Won a trip to Japan to present a paper on inversion of vehicle overturning moments at the SAE conference in Kawasaki.

SOFTWARE PROFICIENCY

- Siemens NX & FEA, Teamcenter, Solidworks, AutoCAD, Navisworks, MS Office