

Alfred Green

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Summary

Six-Sigma Black Belt / Product Development Engineer. 10+ years' experience realizing and implementing cost-, time- and waste-reducing process improvements within the automotive industry. Areas of expertise include DMAIC and DFSS Six Sigma methodologies and application of statistical tools.

Open-Source / Collaboration Software Specialist. 6+ years' experience converting small- and mid-size companies to open-source technologies (e.g., Linux; Asterisk; Apache; Samba), mitigating costs associated with hardware and software license purchases by as much as \$500K per client.

Systems Architect. 6+ years' expertise in LAN and telecommunications design; server and firewall implementations; thin-client architecture; routing protocols.

Professional Experience

Ford Motor Company (Dearborn, MI)

1999 – Present

Six-Sigma Black Belt, Body Engineering and Interior Division

Project: Seat Trim Quality – DMAIC (.028R/1000 Improvement @ 3MIS)

Led collaborations with cross-functional team (Customer Service; Seat Engineering; Digital Imaging) to mitigate line seat trim expended warranty; identified and reduced defects and variability in design, manufacturing and other upstream processes. Discovered and mitigated process issues accountable for \$1.8M (10%) of "as delivered" defects. Worked with dealers to define and implement warranty pre-authorization criteria, including online visual acceptance standards (e.g., Picture Book; Boundary Samples) to thwart improper customer claims.

Project: Power Seat Defects – DMAIC (.35R/1000 (3/36) and 0.075R/1000 @ 3M)

Discovered poor retention strategy on power seat and motor harnesses through implementation of extensive stress tests. Removed defect and eliminated projected warranty spend (\$190K through P356 life, 2008–2011) through introduction and implementation of stronger connectors.

Project: Systemic Scuff Plate – DCOV (1.51 R/1000 @ 3MIS)

Reduced expended warranty (\$400K, Jan–Jul, 2008) 30% by identifying and reducing defects and process issues at component and system levels.

Project: Seat Belt Buckles – DMAIC

Coached Vehicle Restraints team to develop robust method for cleaning seat belt buckles using DMAIC toolkit; removed expended warranty for contaminated buckles (\$400K per year). Instructed team in boundary diagram construction (a systems approach to product development); the identification and ranking of critical-to-quality (CTC) input/output variables (KPIV/KPOV); and the development of design of experiment (DOE) factors and levels.

Design & Release Engineer, Power Train Division

Project: Driveshaft Configuration

Designed and implemented a time-saving driveshaft configuration software algorithm for heavy truck application that reduced design complexity and expended warranty by \$80K.

Project: Exhaust Systems Design

Collaborated with Manufacturing and assembly plant personnel to re-design, develop and test exhaust system for 5.4L and 6.8L Ford Super Duty F-Series and Excursion, resulting in significantly reduced cost (saved \$300K by reducing required amounts of steel and other precious metals); NVH (noise, vibration and harshness); loss of horsepower; and emissions (satisfying government-mandated emissions targets). New exhaust system reduced expended warranty by \$150K.

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EXPERIENCE, CONT.

GlobalTek-IT (Detroit, MI) 2004 – Present
CTO

Provide clients with state-of-the-art products and services, including thin-client technologies using the Linux Terminal Server Project. Resist vendor lock-in and avoid proprietary software whenever practical. Reuse commodity hardware to drastically reduce computing budgets of non-profits and school districts. Achieved year-over-year reductions in operating expenses by migrating desktop software to GNU/Linux.

BKAEG Technologies (Detroit, MI) 2003 – Present
President

Leverage open-source (e.g., Linux; Samba; rsync; Asterisk) and VoIP technologies; develop computing and networking solutions (e.g., LAN/WAN server configurations; wireless networking) to mitigate costs associated with hardware and software license purchases for corporate, education and non-profit clients.

Allison Engine Company (Indianapolis, IN) 1994 – 1996
Engineer (Intern), Turbomachinery Research Laboratory

Professional & Community Leadership

Improving Performance in Practice

Volunteer process engineering services in physicians' offices throughout the state of Michigan to improve delivery methods and overall quality of care for diabetes and asthma patients. [Detroit Free Press](#)

National Society of Black Engineers

Provide professional development and leadership training to students and junior-level professionals; coordinate community service and outreach programs.

Military Experience

US Navy, Gas Turbine Systems Electrician 1986 – 1991

Skills

Operating Systems:	GNU/Linux; Unix; Microsoft Windows; OpenBSD
Productivity / Server Software:	Open Office; Microsoft Office; Asterisk; Samba; Minitab
Programming Languages:	Ansi C; Fortran
Foreign Languages:	Working knowledge of French and Spanish

Professional Certifications

Certified Consumer-Driven 6-Sigma Green Belt / Black Belt

Education

MS, Product Development, University of Detroit (Mercy) – Thesis Pending

BS, Mechanical Engineering, Florida A&M University

Diploma, Brooklyn Technical High School

Personal Achievements & Awards

3rd Degree Black Belt (Dan #17110), World Moo Duk Kwan Tang Soo Do
Navy Achievement Medal, Desert Shield/Storm