

Andrew London

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ENGINEERING MANAGER

Mechanical Engineering – Testing and Validation – Automotive

Project planning | Complex test setup and evaluation | Data-driven | Quality | Diverse Team Leadership

CORE COMPETENCIES

Test Engineering
Validation Engineering
New Lab Design and Start Up
Environmental Health and Safety (EH&S)

Budget Development and Management
Project Management
Advanced Equipment and Instrumentation
Hiring, Training, and Supervision

Methodologies and Quality Systems: Lean, 5S, Kaizen, DMAIS, TPS, Six Sigma, FMEA, Continuous Improvement, Pugh Analysis, Root Cause Analysis, KPI Analysis, DVP&R, PPAP, A2LA ISO 17025, DOE, DFR.

PROFESSIONAL EXPERIENCE

DAE NORTH AMERICA • Livonia, MI • Tier one automotive supplier.

Manager – Testing & Calibration (Promotion: 02/2018 – 01/2021)

Managed the chemical, environmental, and calibration labs (\$10M in assets), and project groups. Led and supervised three teams in a matrix environment. Coordinated manpower, test equipment, calibration, fixture design and fabrication. Established and monitored key performance indicators (KPIs). Developed and managed a \$200K budget for calibration and \$100K for test equipment and lab expenses.

- Revamped calibration group, including processes and calibration procedures, after previous team nearly lost ISO accreditation. The restructured team passed audit with few known issues.
- Cultivated a continuous improvement culture in the environmental, calibration, and project lead groups using Lean, DMAIS, PDCA, 5S, and VSM.
- Launched *first* effective review system to minimize test errors and ensure data validity. Integrated system into department culture. Result: Reduced critical test errors to under two per year.
- Implemented a multi-shift system that improved lab capacity to meet customer deliverables.
- Improved documentation system and was recognized with commendations during external ISO 14001/17025 audits.

Electrical
Complex test station development

Mechanical
Electromechanical system repair

Chemical
Safety and disposal inorganic and organic compounds

Supervisor – Environmental Testing (Promotion: 2010 – 02/2018)

Supervised a team of 10 engineers and technicians – a group that doubled in size during tenure. Led environmental and chemical exposure testing of complex electrical, communications, and material performance for automotive OEMs. Managed testing schedule to meet deliverables. Represented the environmental group for internal and external audits.

- Designed a preventive maintenance schedule that reduced downtime by 25%.
- Created internal quality processes and procedures.
- Brought equipment repair and calibration in-house by training existing personnel – reducing department expenses by \$100K+ annually.
- Established a report/data review process that improved accountability and accuracy of test data.

Complex electrical testing with environmental conditioning

PROFESSIONAL EXPERIENCE (Continued)

Early Career with DAE North America

Engineer (2000 – 2010) Promoted through a series of engineering positions of increasing responsibility and skill level.

Held various in-lab positions, including R&D, failure analysis, concept, design, and testing/production validation. Testing included vibration, thermal, water, chemical, irradiance, mechanical exposure, and HALT/HASS. Validation included complex electrical and communication, color, and material integrity.

EDUCATION

Master of Science in Mechanical Engineering (MSME)

University of Michigan • Ann Arbor, Michigan

Bachelor of Science in Mechanical Engineering (BSME)

University of Oklahoma • Norman, Oklahoma

MILITARY SERVICE

United States Navy (5 years)

Machinist Mate; P.O.2/E5

TECHNOLOGY

High aptitude for technology • Enjoy learning and sharing new skills

Experienced presenter of technical and non-technical information via PowerPoint

Microsoft Office

Word, Excel, Outlook, PowerPoint, Skype, Access, Visio

Project Management, including finite capacity/project scheduling and tracking

MS Teams, MS Project, Alexsys Team, Agile, Waterloo-TACTIC

Analysis and SAP: Mathcad, Matlab, Mathematica, SAP

CAD: AutoCAD, Ideas

Programming: VBA, NI Labview, HPVee, Python

Operating Systems: Working knowledge of both Windows and Mac OS