

JOSEPH HUXLEY

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ELECTRICAL ENGINEER / EIT

Solutions-oriented and analytical with history of success contributing to reliable, best-in-class Integrated Circuit (IC) design, sensor production, and sound quality-control procedures.

Adept at readily gathering and translating complex requirements into viable solutions. Strong production background involving C# and proficiency with laboratory test and measurement tools. Cost-conscious; implement timesaving measures to optimize production. Excel at collaborating across departments; coordinate with staff and managers to complete projects on time and within budget. *Engineering and technical expertise includes...*

PLCs:	Allen Bradley, Siemens, GE Fanuc
Design:	A/D and D/A Conversions; Circuits; Analog / Digital / Mixed-signal Design
Methodologies:	Experimental, Numerical, Analytical Robustification; Design for Six Sigma (DFSS)
Tools:	MATLAB, AutoCAD, Autodesk, LabVIEW, OrCAD, Wonderware, Mathematica
Production:	Validation Testing; Process Automation / Improvement; Fabrication and Simulation; Human-machine Interfaces (HMIs); Sensors (vibration, pressure, force, gas, and inertial)

EXPERIENCE HIGHLIGHTS

MALPAIS SYSTEMS, Des Moines, Iowa

Electrical Engineer, 8/2011 – Present

Integral in the design, development, testing of vibration, pressure, force, gas, and inertial sensors. Create analog, digital, D/A, A/D, and mixed-signal circuit designs as well as electrical specifications for new system designs. Actively involved in full life design cycle, from requirement definition through design, prototyping, proof of concept, testing, and interface implementation; outline and develop validation test plans. Co-author comprehensive support documents for Fabrication, Integrated Circuit (IC) Design, PCB Design, and ASIC Design teams. Interface with internal customers and external production / mechanical engineering teams.

Selected Contributions:

- Saved potentially thousands in production costs by identifying strategic improvements to product life cycle during the New Product Development (NPD) process.
- Triggered 2.3% increase in sensor reliability by developing testing validation procedures.
- Played key role in ensuring team efforts met—and often exceeded—all financial, performance, quality, and reliability goals.

Continued...