

Rob Bodnar

Experience

25+ YEARS OF CONCEPTUAL DESIGN, ENGINEERING, VALIDATION, AND PROJECT EXECUTION in automotive, consumer products, factory control systems, quality, and testing.



06/2015 – Today General Motors Corporation: Lansing, Michigan

Senior Manufacturing Engineer

Maintain and upgrade factory control and information systems. Problem solving for production issues, reduction of quality problems, and support for new product launches. Cadillac & Camaro.



11/2010 – 05/2015 General Electric Corporation: Louisville, Kentucky

Senior Advanced Project Engineer: Consumer Appliances

Redesigned and modernized quality, regulatory, and automated test systems. New product feasibility, cross functional team product design for manufacturing. Restructured, reorganized, and improved test labs. Lean Six Sigma Black Belt. Dishwasher and Air Conditioners.



5/2010 – 10/2010 Spartanburg Steel: Spartanburg, South Carolina

Senior Engineer

Improved automation control systems. Reprogrammed for automatic part change overs. Reduced the defect rate. Designed standard weld systems. BMW Tier 1.



10/2008 – 4/2010 Dürr Systems, Novi Michigan

Project Engineer – Automotive Assembly and Test

Hardwire design and systems architecture for washers and filtration systems.



11/2006 – 8/2008 Kuka Corporation, Sterling Heights Michigan

Project Engineer – Automotive Trim, chassis and final assembly

Designed control systems for new and re-tooled automation. Executed and supervised installations, start-up and de-bug. Ford & Chrysler projects.



1/2006 – 10/2006 Electradyne: Warren, Michigan

Project Engineer – Automotive Robot Welding Systems

Hardwire design, HMI and PLC programming, de-bug PLC logic.



6/1997 – 12/2005 ABB Group

Project Engineer – Automotive Assembly and Test Systems

Created and improved new customer standards for human machine interfaces and factory information systems. Cradle to grave design and engineering while maintaining schedule and budget. GM, Ford, Chrysler, Volvo, Lear.



6/1992 – 6/1997 CSI: Warren, Michigan

Engineer – Automotive Assembly

Designed control panels for new and re-tooled assembly machines. Supervised the Autocad department. PLC/HMI programming. Panel building, wiring and troubleshooting of control panels.

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1984–1990 Jervis B. Webb Company: Farmington Hills, Michigan

Engineer – Automotive & Industrial Conveyor

Designed field wiring and conduit layouts for automotive conveyor systems, commercial buildings, and mining operations. Estimating, quotation, material ordering, supervised and trained CAD department personnel.

Education

Ferris State University & Kendall College of Art & Design



Ferris State University – Bachelor's degree Industrial Design.

Kendall College – student council chair for industrial design studies.

General Electric - Six sigma black belt.

Skills



Budget & scheduling, cost reduction, cross functional product development teams, design for manufacturing, DMAIC, estimating, GMS, kaizen, lean manufacturing, project management, product feasibility, product design, productivity improvements, project tracking, process improvements, PFMEA, PR&T Super user, PM&C, 5s, resource management, safety, six-sigma black belt, quality engineering.

Awards

2001 - 2003 Supplier of the year ABB from Ford Motor Company.
2012 - 2013 GE Quality department award for reducing the service call rate by 50%.
2016 - 2017 GM Motor Trend Magazine car of the year award for Chevrolet Camaro.
2019 - 2020 GM Patent submissions powertrain, battery electric cars and trucks.
2020 - 2021 GM iHub (3) design innovations for Battery Electric Truck developments.

Volunteering

2009 - 2020 USFIRST World Judge for STEM high school robotics competition.
2011 – 2012 GE volunteer for Bellwood Children's home extreme makeover.
2011 – 2015 Dare to Care Food Bank.
2010 – 2015 Toys for Tots annual charity gala organizer.