

# John Smartt

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Innovative Manufacturing Engineering with experience in new equipment deployment and production support, design for safety, controls, process planning, mechanical design, master data, design for manufacturability, change management, and cost reduction.

2016, Apr - present                      Kirchhoff Automotive                      Manchester, Tenn.

## **Manufacturing Engineer**

- Responsible for 2 major launches (VW Cross blue and BMW G05)
- Lead on all Engineering Change requests and Engineering Change notices
- Maintained and improved ERP master data (boms, routings, and workcenters)
- Made use of Cost model system and newly implemented PLM system (CIM database)

2005, Oct – 2016, Mar                      Yorozu Automotive                      Morrison, Tenn.

## **Assembly Engineering Section Manager (2012, March – 2016, April)**

- Responsible for ensuring equipment safety (with respect to design and implementation)
- Performance reviews, capital planning, monthly performance report to upper management, expense budget, work order priority, daily production meeting, daily manager's meeting, ensure new model launches meet buyoff requirements, analyzing production data, training new staff members, technical resource
- Developed data analysis tools for press-fit processes (VB) and line downtime
- Developed standardized system for parameter and setup information
- Developed innovative solutions to fundamental problems:
  - RFID readers for controlled machine fault reset
  - Use of current transducer and logic (PLC + robot) to detect and contain no-welding situations
  - Solved automatic reference point check issue for Fanuc robots and improved reliability

## **Corporate Engineer (2008, June – 2012, March)**

- Develop process plans, layouts, and manning utilization plans for arc-weld cells and die lineups
- Tooling design of weld jigs and stamping dies (Inventor and Cimatron)
- Estimate build and modification costs of tooling and equipment for marketing and sales
- Design control system for robotic weld cells
- Coordinate tooling and equipment development in Japan with plant engineering
- Managed projects with budgets in excess of \$500k per year
- Develop documentation: FMEA, setup sheets, operation sheets, preventive maintenance schedules, changeover instructions, planning schedules, etc.
- Engineering lead for:
  - SJC, line move / equipment reuse to support production at Morrison plant
  - SKD, insourcing project involving 8 weld cells and 3 projection welders
  - L42A MY'10, equipment reuse and die modification to support customer cost reduction
  - WQ, die modification and equipment reuse to support insource project
  - TK4X, die modification for model change (1 Blank, 3 transfer die sets [12 dies])
  - 051A, launch new line for Camry links, develop new boring process

**Engineer (2005, Oct – 2008, June)**

Designed and upgraded safety system for hydroform press line

Launched Tailor Welded Blank line (new technology to Yorozu)

    Took scrap percentage from 50% to 3%

    Designed and installed rolling blank magazine changeout system

    Worked with Servo-Robot for improvements and additional algorithms for laser weld inspection system

    Developed training material and trained operators and weld specialists

**Safety Coordinator (2001 – 2005) Tri-County Stone**

Responsible for maintaining MSHA safety standards

Gained Red Cross CPR trainer certification

Gained Explosives material handler license

Developed and implemented order software and safety training log system

1998 - 2001                                 Georgia Institute of Technology             Atlanta, Georgia

Pursued M.S. Mechanical Engineering (did not finish)

1993 - 1998                                 Tennessee Technological Univ.             Cookeville, Tenn.

B.S. Mechanical Engineering

3.856 GPA, Magna Cum Laude

Dean's List 8 semesters

Experience with VB, C++, FORTRAN, relational databases, Solidworks, and Inventor

ASME training on TRIZ and Management