**Thomas C. Umscheid**

<http://thomasumscheid.engineer>

Experienced in product development and support from initial concepting and prototype builds, short production runs, to full scale manufacturing using industry standard tools and metrics.

**EMPLOYMENT**

**Boeing Co.**, Renton, WA **Nov 2018 to Feb 2021, Feb 2022 to Present**

Product Review Engineer II

* Obtain and maintain BCA Manufacturing Review Board Authority for 737 program
* Design rework/repairs for manufacturing defects that satisfy static strength and fatigue requirements
* Support chronic manufacturing and design build issues resolution
* Provide engineering interpretation of design and build requirements
* Coordinate with manufacturing, design, quality, and stress groups to facilitate production
* Obtain and maintain DAE and DDE responsibility
* SME in Electrical Wiring

**Boeing Co.**, Mascoutah, IL

Product Review Engineer II **Feb 2021 to Feb 2022**

* Obtain and maintain BDS Manufacturing Review Board Authority
* Support F-15, F-18, CH-47, and MQ-25 programs

**John Deere** contract via Iconma, PEC Waterloo, IA **Aug 2017 to Oct 2018**

Engine Integration Engineer

* Maintain Engine Bill of Materials (BOM) for new product offerings and model year updates.
* Collaborate with Application Engineers (John Deere Power Systems) and Integration Engineers (Vehicle teams i.e. 5000 Series Tractor) to provide information for on-engine components and assist in packaging for engine auxiliaries.
* Manage process flow for Engine BOM through Design Center to Factory.
* Collaborate with engineers focused on continuous improvement, aftertreatment, design, and factory liaison to resolve build issues and revise engines.
* Create, update, and publish engine installation and option drawings for OEM customers, while updating standard of work.

**Kohler Co.**, Kohler, WI  **Jan 2016 to Jan 2017**

Engineering Co-Op

* Implemented, designed, and re-designed assembly and test fixtures (air and water) for new and existing products.
* Coordinated with suppliers, vendors, and other companies for purchases for Design of Experiments, projects, and equipment; including hydraulic press upgrade (a capital expense) and torque tools.
* Participated in Print, Process, Reviews for new products to identify tooling requirements.
* Collaborated with New Product Integration, New Product and Current Product Development on suggested engineering changes on current and new products to align with Assembly best practices.
* Reformatted job instructions to reflect assembly print call outs and specification verification.

**EDUCATION**

**Kansas State University**, Manhattan, KS **Graduated May 2015**

* Accreditation Board Engineering and Technology certified B.S. in Mechanical Engineering.

**APPLIED EXPERIENCES AND SKILLS**

* Aerodynamics; Manufacturing processes; Controls / Vibrations; Mechatronics; Internal Combustion Engines
* Software: Creo, PDMLink/Windchill, Solidworks, C++, SAP/Business Objects, Matlab, Simulink, Labview, Office, Catia V5, Enovia, IVT

**AWARDS AND ACTIVIES**

* General member of SAE 2013-Present; Member of Wildcat Wind Power Design Team 2014-2016.