

# Alexander Thompson

PRODUCT | DESIGN | MECHANICAL ENGINEER · TECHNICAL SPECIALIST

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## Skills

*"Passion for Solving Engineering Problems with the Right Tools and Customer Interactions"*

- Computer & Programming** Unigraphics NX/Teamcenter, Hypervisor(VirtualBox, QEMU-KVM, Hyper-V), Microsoft Office Suite, Linux, OS X,  $\text{\LaTeX}$ , & Mathematica adept. Nastran, HyperWorks, Catia, Visual Basic, C++, Matlab, & Adobe Creative Suite capable
- Engineering** Familiar with concepts of functional plastic material classification systems and testing procedures for maintaining surface color, gloss, scratch & mar characteristics
- Management** Proficient with concepts of part/cost revision, (B)ill (o)f (M)aterial tracking, Change Management, sourcing, and Source Package creation processes

## Experience

### FCA US LLC

Auburn Hills, MI

TESTING & VALIDATION ENGINEER: FLOOR CONSOLES

Nov. 2014 - Mar. 2016

- Managed test budgets and oversaw testing for all Chrysler & Dodge floor consoles, with all testing completed at or prior to target
- Collaborated as part of the product engineering team in (D)esign(V)alidation(P)lan&(R)ecord creation, test part ordering, and fixture design to both establish and meet target timing and budgets
- Worked & negotiated directly with suppliers and test houses to ensure minimal test timing and quality results at minimal cost
- Developed and performed in-house novel in-vehicle force deflection test method with results precise to 0.18mm

### Chrysler Group LLC

Auburn Hills, MI

INTERIOR PRODUCT ENGINEER: INSTRUMENT PANELS

Nov. 2012 - Nov. 2014

- Root caused and implemented rapid development, validation, and engineered design and process solutions as component release engineer for the 2015 Chrysler 200 glove box
- Developed the 2015 Chrysler 200 glove box mechanical design, back side geometric constraints and construction as an iterative process feeding back to a surface design, validating the HMI and homologation safety considerations, and implementing with the cross-functional design team concept into the vehicle from theory to final tooled part

### Chrysler Group LLC On Contract via Computer Engineering Services

Auburn Hills, MI

INTERIOR PRODUCT ENGINEER: INSTRUMENT PANELS

May 2011 - Nov. 2012

- Root caused and implemented rapid design solutions as launch engineer for the 2013 Dodge Dart Instrument Panel & on the Patriot, Compass, Durango, Cherokee, Caravan, and Ram Truck carryover Instrument Panels utilizing Shainin and Kepner-Tregoe Problem Management Strategies

### Undergraduate Research, U of Michigan Medical School Division of Rheumatology

Ann Arbor, MI

RESEARCH ASSISTANT (LAB OF ALISA KOCH M.D. FOR JEFFREY RUTH PH.D.)

Sep. 2007 - May 2008 & Jan. - Apr. 2011

- Evaluated the role of E and P-selectin vessel/cell wall adhesion molecules in accelerated arthritic development, dendritic cell antigen presentation, and T regulating cell recruitment to slow or reverse the course of rheumatoid arthritis.

### Undergraduate Research, U of Michigan Center for Ultrafast Optical Science

Ann Arbor, MI

RESEARCH ASSISTANT (LAB OF STEVEN YALISOVE PH.D. FOR JOEL McDONALD PH.D.)

Oct. 2006 - May 2007

- Prepared and mounted film samples, performed laser alignment, carried out firing schedule, high resolution imaging of samples, blister and feature measurement, and data analysis as part of the research group producing laser damage studies using a femtosecond titanium sapphire pulse laser firing upon thermally grown thin silicon oxide films atop silicon substrates
- Studies were performed to create durable microfluidic silicon channels upon silicon substrates suitable for DNA sorting and electrolytic conductance

## Education

### University of Michigan

Ann Arbor, MI

B.S. IN MECHANICAL ENGINEERING

Apr. 2011

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