

# TIMOTHY JACQUE

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## PROFESSIONAL SUMMARY

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- Diligent product engineer with 2+ years experience and bonus skills in business, databases, and programming
- Strong experience in design engineering through developing ideas and sketches into fully functional products
- Proven results in data analysis; improved company profitability and identified life-saving solutions for Indiana
- Growth mindset professional; detail oriented, focuses on constant improvement, and is a clear communicator

## EXPERIENCE

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**Models Plus, LLC** – Small business that manufactures anatomical models for doctors to display in their offices

*Product Engineer; June 2016 – February 2017; Employment Type: Full-time Job*

- Led engineering design and drafting; successfully managed CAD and 3D printing for 34 projects in 9 months
- Designed a handheld orthodontic product for injection molded manufacturing using CAD and 3D printing
- Drafted and modeled an AR15 bolt carrier; product CNC machined for production of 1,800+ units per month
- Designed and tested 7 fixtures for production level painting of emblems for Tier 1 automotive suppliers
- Implemented data gathering and data analyzing techniques; reduced labor by 60+% and materials by 20+%

**ProMazo, LLC** – Start-up company that provides teams of students with part-time consulting jobs for large companies

*Design Consultant; January 2016 – May 2016; Employment Type: Contract/Internship*

- Led product development for a project with Whirlpool using NX computer aided design; Whirlpool financially invested in the design and the product is anticipated to launch Q4 of 2017
- Developed the product with both digital and physical components centered around an intuitive user experience
- Collaborated with 7 interdisciplinary Notre Dame affiliates; completed project on time and under budget

**Somni, LLC** – Start-up company that improves sleep through cognitive behavioral therapy and sleep assistance items

*Product Development; June 2015 – June 2016; Employment Type: Internship/Part of Graduate School Curriculum*

- Wrote a business plan with financial forecasts, market research, customer acquisition and growth strategies
- Involved in the initial development of the product offering; assisted founder with outlining program lessons

**Michigan State University** – Public research institution in East Lansing, Michigan

*Mechanical Engineering Teaching Assistant; January 2014 – May 2015; Employment Type: Part-time Job*

- Educated 105+ students on NX, computer aided design, for three semesters in both basic and advanced classes
- Distributed class materials and kept other material confidential, such as exams and quizzes

## EDUCATION

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### University of Notre Dame

*Master of Science in Engineering, Science and Technology Entrepreneurship (ESTEEM)*

- Conducted scientific research and business planning for a start-up company in the healthcare industry
- Analyzed 7 years of automobile accident history in the State of Indiana and presented life-saving solutions to state representatives; Indiana built my proposal into their annual budget for transportation

### Michigan State University

*Bachelor of Science in Applied Engineering Sciences (AES)*

- Concentrations in Computer Science and Supply Chain Management
- Built a cost analysis program in Excel to reduce bulk shipping expenses for Asahi Kasei Plastics; Recipient of “Most Sustainable” Capstone Thesis Award

## SKILLS & INTERESTS

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Computer Software: NX, SolidEdge, SolidWorks, Python, HTML5, CSS3, Angular, Bootstrap, and Microsoft Office  
Soft Skills: Collaboration, Initiative, Leadership, Organization, Design Thinking, and Creativity