

Xuejian Gong

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EDUCATION

- ◆ **Graduate: Georgia Institute of Technology, Atlanta, GA** **08/2016 - Present**
 - Doctor of Philosophy & Master of Science in Mechanical Engineering.
 - Minor in Paper Science and Engineering
 - Graduate research assistant in Design Systems Engineering Research Lab, W. School of Mechanical Engineering
 - Advisor: Dr. Jianxin (Roger) Jiao
 - Project Title: Big-Data Driven Predictive Analytics for Smart Manufacturing Process Operations in the Pulp, Paper and Packaging Industries
 - Interested fields: manufacturing system design and data-driven predictive analysis
- ◆ **Undergraduate: Harbin Engineering University, Harbin, China** **08/2012 - 06/2016**
 - Major in Mechanical Design Manufacturing and Automation, bachelor of Engineering.
 - Second Major in International Economy and Trade, bachelor of Business.

RESEARCH WORKS

- ◆ *Variety-Driven Assembly System Layout Design by Design Structure Matrix Clustering Analysis* **06/2017**
 - Conference paper for 50th CIRP Conference on Manufacturing Systems
 - Proposing a data-driven method for the layout design of high variety assembly system, includes variety management and clustering analysis
- ◆ *Simulation-Driven Manufacturing Planning for Product-Production Variety Coordination* **12/2017**
 - Accepted paper for 2017 International Conference on Industrial Engineering and Engineering Management
 - Proposing a simulation-driven method to evaluate the manufacturing plan alternatives in the preliminary development stage of platform based products
- ◆ *Holistic Producibility Evaluation for Platform-Driven Product-Production Variety Coordination* **10/2017**
 - Working paper
 - Proposing a holistic evaluation method for platform-driven product-production variety coordination, includes product configuration, process feasibility reasoning, and production performance-based evaluation.

INTERNSHIP EXPERIENCE

- ◆ **Georgia Department of Economic Development, Atlanta, Georgia** **08/2016-08/2017**
 - Greater China Region Initiatives Coordinator
 - Coordinate the Chinese manufacturing companies' facility site selection in Georgia
 - Be the translator in the government affairs and company researching cooperation with Georgia Institute of Technology
- ◆ **Dalian Marine Diesel Co., Ltd, Dalian, Liaoning Province** **08/2015-09/2015**
 - Engaged in schematization of processing technology of typical diesel engine
 - Learn about specific process and precautions about superfinishing and numerical control machining
 - Trained in operational process of oversized mechanical parts assembly
- ◆ **HEADER Heavy Industry Machinery Co., Ltd, Qingdao, Shandong Province** **07/2015 – 08/2015**
 - Take an active role in devising and manufacturing Engineering Level Multi-functional mini robots
 - Participate in maintaining small excavators
 - Educated about the designing process of hydraulic system and troubleshooting process

SKILLS

- ◆ **Computer**
 - Experienced in C, Python, SysML; Knowledge of JAVA, SQL
 - Proficient in Matlab and Mathematica
 - Proficient in Microsoft Office, AutoCAD, Inventor, UG NX, CATIA and Simio
- ◆ **Language**
 - Bilingual, fluent in English, native in mandarin Chinese