

# Weiuan Deng

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## EDUCATION

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<b>Northwestern University</b> Master of Science in Robotics	August 2014 - Present
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<b>Purdue School of Engineering and Technology (IUPUI)</b> Bachelor of Science in Mechanical Engineering	August 2014 - May 2016
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<b>Sun Yat-Sen University</b> Bachelor of Science in Theoretical and Applied Mechanics	September 2012 - May 2016
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## HONOR

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Purdue School of Engineering and Technology - SYSU: Impact Scholarship	2014 – 2016
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## SKILLS

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• Modeling:	Matlab	Python	LabVIEW	
• Editing:	Microsoft Office	Photoshop	Image J	
• Designing:	AutoCAD	Creo	ANSYS	
• Languages:	Chinese	Cantonese	English	Japanese

## RESEARCH

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<b>Lithium Ion Battery (LIB) Optimization</b>	August 2015 - May 2016
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- Used Finite Element Analysis to find power density of designed LIB
- Analyzed the data and find the heterogeneous grain structure of LIB
- Used Matlab to recreate the grain structure and plot the correlation function

**Analysis of Force Transfer and Arching Effect in Sand Pile and Silo Filled with Sand**

September 2015 - June 2016

- Making a comparison analysis of the arching effect and force transmission in a sand pile and in a silo stored with sand, by means of DEM (discrete element method)

## PROJECTS

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<b>Plastic Crusher Design</b>	August – December 2015
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- Designed a plastic crusher for office according to Creo
- Loading analysis to varies structures with ANSYS

**Medical Vending Machine Design**

August – December 2014

- Designed a medical vending machine according to Creo
- Completed a report with design achievement

**Pitching Machine Upgrades**

January 2016 – present

- Designed a high capacity ground ball feeder for pitching machine
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## **OTHER EXPERIENCE**

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### **Heyuan City Jing Tong Company of Surveying and Mapping (Shunde)**

Intern

Summer 2015

- Used AutoCAD to draw the map of topography
- Building surveying

### **Guangdong University of Technology**

Metalworking Intern

Summer 2014

- Machined parts for manufacturing (lathing, milling, grinding, benching, etc.)
- Trained for skill of 3D-print, cnc lathe, and machine assembling

### **China Key Laboratory of Optoelectronic Materials and Technology in SYSU**

Lab Assistant

Fall 2012

### **Xinger School of Deaf Children**

Teaching Assistant

Summer 2012