

Sheng Ma

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Education

Master of Science: Computer Engineering	Sep. 2017 - Present
Northwestern University	Evanston, IL
Cumulative GPA: 3.133 /4.0	Expected Graduation: Dec. 2018
Bachelor of Science: Electrical Engineering	2015 - 2017
University of Missouri - Columbia	Columbia, MO
Bachelor of Science: Automation	2012 - 2015
East China University of Science and Technology(ECUST)	Shanghai , China

PROJECTS

Human & Computer Interaction, Evanston, IL	Spring 2018
<i>Web, Music Player and Website Design</i> (JavaScript, HTML, CSS, Bootstrap)	
<ul style="list-style-type: none">• Built a music player that user can select albums, songs, adjust volume, and change to different songs.• Designed a lifelong learning website, which helps user to have a lifelong learning habit.• Twitter api, youtube api, bootstrap• https://masheal.github.io/ (lifelong learning website: username: shengma2019@u.northwestern.edu password:123)	
Deep Learning, Evanston, IL	Fall 2017
<i>Image Recognition Algorithm Design(python)</i>	
<ul style="list-style-type: none">• Applied deep learning knowledge of specific method or algorithm to image recognition on handwritten numbers• Built a avoid these negative words model by using softmax regression and built a complex model based on CNN what the model used for	
Solar Powered Phone Charging Station, Columbia, Missouri	Fall 2016
<ul style="list-style-type: none">• Built temperature controlled fan, pressure sensor, and button controlled door based on Arduinio.• Whenever temperature of battery is over a certain point, fan starts to work to ensure a proper working environment for battery.• Pressure sensor is used to sense the presence of phone, battery will be force to stop working if user's phone is not in the charging cell.• Button controlled door is used to open the door of the charging cell.	
Wireless Audio Transmitter	Fall 2016
<i>wireless audio transmitter design</i>	
<ul style="list-style-type: none">• Designed a wireless audio transmitter by using IR led, PIN photodiode, Audio Jack, potentiometer and capacitor. Managed to connect input and output with infrared.	
A Brainwave and Gyro Detection Mobile Base Controller	Fall 2016
<ul style="list-style-type: none">• Designed a Mobile Base Controller which is controlled by raw brainwave data and gyroscopic data. Those data are transmitted to computer and then be processed through sequential analysis and displayed on a graphical user interface	

INTERN EXPERIENCE

Industrial Engineer	June 2016 – August 2016
Delphi Automotive, Shanghai, Plant A6	Shanghai, China
<ul style="list-style-type: none">• Calculated hours of labor. Using formulas to calculate various kinds of hours of labor.• Manufactured Tooling Boards. Punching holes on Tooling Boards and assembling parts on it.• Made list of wire's required elements. Counting the number of each wire's required elements.	

SKILLS

- Programming Languages: C, Java, , Python, VHDL
- Web: HTML, CSS, JavaScript, jQuery, MySQL
- Experience in web design, deep learning, operating system, computer architecture