

## Bingcheng HU

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### EDUCATION BACKGROUND

Sept 2016 – present	Shanghai Jiao Tong University (SJTU), China University of Michigan – Shanghai Jiao Tong University Joint Institute (UM-SJTU JI) Electric and computer engineering (teaching specialized courses totally in English)
Feb 2018 – Mar 2018	Sophia University, Japan Visiting Student: Japanese Study

### LABORATORY EXPERIENCE

Oct 2017 – Feb 2019	<b>Department of Physical Education and Sports Science (Prof. Yuxing PENG, yxpeng@zju.edu.cn)   Zhejiang University</b> <ul style="list-style-type: none"> <li>➤ Helped with projects: human rehabilitation, exoskeleton control, remote manipulation, UDP data transmission, etc.</li> <li>➤ Wrote the upper computer independently for the following projects in the lab: posture-sensing gloves, two-dimensional force sensor, three-dimensional force sensor.</li> </ul>
Mar 2019 – present	<b>Collaborative Information Systems Laboratory (Prof. Jian CAO, cao-jian@cs.sjtu.edu.cn)   Shanghai Jiao Tong University</b> <ul style="list-style-type: none"> <li>➤ Write the crawler software to crawl the GitHub user data and save it as a SQL database file for easy use by peers.</li> <li>➤ The production and landscaping of the data chart.</li> </ul>

### SELECTED PROJECTS

Nov 2017 – Nov 2018	<b>SJTU-company innovation practice program for undergraduates <a href="#">[click]</a>   Team leader</b> <ul style="list-style-type: none"> <li>➤ Learned Android APP development</li> <li>➤ Learned color classification: RGB, HSB</li> <li>➤ Practiced high speed data transmission</li> <li>➤ Made an Android App independently and mastered Android app production process</li> </ul>
Jan 2018 – May 2018	<b>Made a gesture sensor with six-axis gyro control   Experimental assistant</b> <ul style="list-style-type: none"> <li>➤ Learned high-speed Wi-Fi data transmission</li> <li>➤ Practiced data encoding and decoding</li> <li>➤ Made part of hardware and completed welding</li> <li>➤ Wrote all code independently with C++</li> <li>➤ The paper is still in the peer review, you can find the preprint <a href="#">here</a></li> </ul>
May 2018 – July 2018	<b>The 16th Structural Design Competition of Shanghai Jiao Tong University <a href="#">[click]</a>   Team Leader</b> <ul style="list-style-type: none"> <li>➤ Made a large-span load-bearing transport model which improved my hands-on practical ability.</li> <li>➤ Improved my leadership skills, learned to communicate and cooperate.</li> </ul>

June 2018 – July 2018	<b>The 8th University Engineering Comprehensive Ability Competition (Shanghai) <a href="#">[click]</a></b> <b>  Team member</b> <ul style="list-style-type: none"> <li>➤ Made a self-propelled car with directional control that is driven by gravity.</li> <li>➤ Won the first prize.</li> </ul>
July 2018 – Sept 2018	<b>China-US Young Maker Competition (Shanghai) <a href="#">[click]</a>   Team Leader</b> <ul style="list-style-type: none"> <li>➤ Designed and produced a prototype for a solar-powered underwater inertial navigation robot.</li> <li>➤ Won the second prize (the third place).</li> </ul>

## PROFESSIONAL SKILLS

Languages	Matlab, C, C++, JAVA, Verilog, Python, Latex
Software	Android, OriginLab, Mathematica, Xilinx, AutoCAD, CTeX, Xcode, Processing, Arduino, Eclipse, DataGraph, Photoshop, etc.
Projects	Smart watch development, MCU development, processing Upper computer, attachable hand motion capture system.
Operating Systems	Linux, MacOS, Android
Machines and tools	3D Printer, Laser Acrylic Cutting Machine, Wood Cutting Machine, Machine tool.

## APPENDIX MATERIALS

Personal Website	<a href="http://bingcheng.openmc.cn/about">bingcheng.openmc.cn/about</a>
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