

# Bing Zhou

🏠 #1501, Unit 138, 50<sup>th</sup> Street, QingShan District, Wuhan, Hubei Province, China



[bing\\_zhou\\_barrett@hotmail.com](mailto:bing_zhou_barrett@hotmail.com)



+86 18627886419

---

## EDUCATION

---

**Tongji University**      **School of Geodesy and Geoinformatics.**      **M.E.**      **GPA:84.8/100**      **(2011-2014)**

Research: multi sensor integration and localization.

Thesis: Realization of Mobile Mapping System and Data Collection.

**Wuhan University**      **School of Geodesy and Geomatics.**      **B.E.**      **GPA: 85.3/100**      **(2007-2011)**

Research: GNSS positioning.

Thesis: Research of Ionospheric Delay Interpolations and Their Performance Comparison.

---

## RESEARCH EXPERIENCE

---

**Research Project Leader**      **Central Southern China Electric Design Institute, Wuhan.**      **(2017-2018)**

- Administered a research project on GNSS precise positioning application. Researched the positioning performance when using different satellite system combination, different type of receivers under various observation environments.
- Conducted a research project on UAV applied topographic survey. Evaluated the influence of camera resolution, flight altitude, density of control points and terrain on survey accuracy. Designed a UAV photogrammetry workflow.

**Graduate Research Assistance**      **Tongji University**      **(2011-2014)**

- Gathered and classified applicable topographic maps as the base map for a Active Transportation Safety System.
- Designed and developed an Android App for a Active Transportation Safety System, which displays important road information when the user enters a certain zone of interest.
- Designed and developed an Android App that monitors and visualizes the real-time position and attitude of marine piling ships.
- Investigated on coordinate transformation, data fusion and sensor calibration algorithms on multi-sensor systems.
- Designed and implemented a multi-sensor integrated Mobile Mapping System prototype.

**Undergraduate Research Assistance**      **Wuhan University**      **(2009-2011)**

- Searched, gathered and organized papers and other materials on VLBI applied to Martian atmosphere analysis.
- Evaluated the performance of five interpolation algorithms on calculating Ionospheric delay in GNSS positioning.

---

## PROFESSIONAL EXPERIENCE

---

**Software Develop Engineer**      **Central Southern China Electric Design Institute, Wuhan.**      **(2015-Present)**

- Developed a distribution network design PC platform based on ArcGIS.
- Developed a powerful Android App for various electric engineering survey data collection.
- Developed a Android App for DJI drone control and automatic route planning.
- Established servers and developed several RESTful APIs and Webpages for a smart construction site project.
- Developed a Java application for location big data acquisition based on Kafka and Flink for a smart construction site project.
- Configured a streaming media server and developed a webAPP displaying UAV surveillance live stream with object detection.

**Unmanned Aerial Vehicle Pilot**      **Central Southern China Electric Design Institute, Wuhan.**      **(2015-Present)**

- Certified UAV Pilot. Directed and executed over 20 UAV photogrammetry missions.

**Survey Engineer**      **Central Southern China Electric Design Institute, Wuhan.**      **(2014-2016)**

- Supervised and participated in over 30 diverse large-scale electric engineering survey projects.

**Software Develop Engineer Intern**      **Leica Geosystem, Shanghai.**      **(2011-2012)**

- Analyzed and migrated a Leica total station embedded WinCE software to Android environment.

## PUBLICATIONS

---

- **Bing Zhou**, Jiaying Liu, Xian Wu. "Application of non-GCPs UAV in Power Plant Topographic Survey and Accuracy Analysis." Bulletin of Surveying and Mapping, 2017,S1,188-191
- **Bing Zhou**, Hui Xu, Zhengfeng Cheng, Liangchen Pei. "Development of Mobile Data Collecting System Based on Windows Mobile." Chinese Journal of Engineering Geophysics. 2016,05, 684-688
- Zhifei Wang, Lianbi Yao, **Bing Zhou**. "Mobile Mapping System Design and Research on Key Technologies." Bulletin of Surveying and Mapping, 2015,S1,231-234
- Lianbi Yao, **Bing Zhou**. "Development and Tests of Low Cost MMS." Principle and Application Progress in Location-Based Services, 2014,159-177
- **Bing Zhou**, Lianbi Yao, Yilin Xie. "Development and Implementation of Real Time Piling Monitoring System Based On Android." Bulletin of Surveying and Mapping, 2013,12,97-100

## PRESENTATIONS

---

- **Bing Zhou**, Congwei Hu, Chuanli Kang, Lianbi Yao. "Differential Positioning Software Development Based on a GPS/Compass Receiver" LBS 2013 International Conference, Shanghai, China

## HONORS AND AWARDS

---

- 2nd Prize of Award for Scientific and Technological Advancement of Electric Engineering. (2018,2019)
- 1st Prize of Award for Scientific and Technological Advancement of Electric Engineering. (2018)
- 2nd Prize of Top UAV Pilots of China Electric Power Industry Contest. (2017)
- 1st Prize of Award for Scientific and Technological Advancement of Electric Engineering. (2015)
- Outstanding Graduate Student of Tongji University. (2012)
- Outstanding Graduate of Wuhan University. (2011)
- Merit Student of Wuhan University. (2009)
- Excellent Student of Wuhan University. (2007,2008)
- QiongYa Student Scholarship of Wuhan University. (2007)
- Second-class Scholarship of Wuhan University. (2007,2008,2009)

## ENGLISH

---

**TOEFL 114** (Reading 29, Listening 30, Speaking 29, Writing 26)

**GRE 319** (Q168, V151, AW 3.5)

## SKILLS AND INTERESTS

---

- Proficient with Java, C#, JavaScript, Spring, Retrofit, Mybatis, JQuery, Vue, etc.
- Familiar with C, C++, python, etc.
- Proficient with Smart3D, PhotoScan, Adobe CC, AutoCAD, TBC, etc
- Interested in Photography(Getty Image China Contracted Photographer), Sports, Chinese Calligraphy