

# Yunpeng Bai

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## EDUCATION

**WASEDA UNIVERSITY** | MASTER DEGREE / SCHOOL OF FUNDAMENTAL AND ENGINEERING .  
COMMUNICATIONS AND COMPUTER ENGINEERING / SEMINAR LEADER  
Sep 2018 - Sep 2020 | Tokyo. Japan  
Cum. GPA: 3.13 / 4.0

**DONGHUA UNIVERSITY** | BACHELOR DEGREE / COLLEGE OF INFORMATION SCIENCE AND TECHNOLOGY .  
COMMUNICATION ENGINEERING  
Sep 2013 - Jun 2017 | Shanghai. China

## EXPERIENCE

### DRONE BASED BUILDING 3D RECONSTRUCTION FLIGHT PATH PLANING SYSTEM

WASEDA University . Tokyo Japan

- The content of this project is designing a system to raise drone working efficiency base on sensor fusion technology. The main design, simulation and experience is on a self-made drone and ROS melodic + Gazebo system platform. The drone contains ultra sonic sensor and miliwave sensor. Base on information back from sensors. Drone can change flight path and camera shooting strategy automatically. This system can raise drone 3D reconstruction accuracy and cut down flying time consumption, raise drone working efficiency.  
Used Languages and Platforms: C++, Python, ROS melodic system, Gazebo, Raspberry Pi.

### INTELLIGENT TEST PAPER GENERATION SYSTEM

DONGHUA University . Shanghai China

- An Intelligent system that can replace professor's traditional making examination paper way. Using genetic algorithm, basing on professor's requirements, the system can get text questions from database and forming a text paper in pdf and docx format automatically.  
Used Languages and Platforms: C++, SQLite, .NET Core

## SKILLS AND LANGUAGES

### PROGRAMMING LANGUAGE

C++, Python, C

### PROGRAMMING FRAMEWORK

Django, Flutter, Tensorflow2, SQLite

### PROFESSIONAL SOFTWARE AND PLATFORMS

Raspberry Pi, Arduino, Pixhawk, Ardupilot, ROS melodic, Gazebo, Matlab, Ansys HFSS

### SPOKEN & WRITTEN LANGUAGE

Native Level:

Chinese

Business Level:

English (TOEFL IBT: 80)

Daily Communication Level:

Japanese

## EXPERIENCE IN ASSOCIATION ACTIVITIES

### SOCCER TEAM

Sep 2013 - Jun 2017 | DONGHUA University . Shanghai China

- During September 2013 - June 2017 I was a member of my faculty's soccer team.
- During 2015 - 2016 I was the captain of the team.