Tianzheng Miao

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Location: Chang'an District, Xi'an, Shaanxi

PROFILE

Date of Birth: 2000.06.12   **Sex:** Male   **Nationality**: The People's Republic of China

EDUCATION

Xidian University | Telecommunications Engineering (Bachelor)   **SEP. 2018 – JUL. 2022**
Major: introduction to programming, engineering mathematics, electronics and communication mathematics, system project
GPA: 91.3/100.0 3.9/4.0

Heriot-Watt University | Induction-Electrical Electronic & Computer Engineering (Bachelor) SEP. 2021 – JUL. 2022

IELTS: 6.5

RESARCH EXPERIENCE

1.The Promoting Function of Breast Bracket on the Subsequent Radiotherapy Effect of Patients After Breast-conserving Surgery

Project leader and Director: Professor Guang Jia   **Numbers of the participants:**5   **Duration:** 2020.12-present

Process: The data set provided by Tangdu Hospital was used to segment the CT image of patients with or without breast bracket. Thus, the three-dimensional center of gravity of the whole image was determined, and the comparation of the offset of the two centers verified that breast bracket greatly improves the accuracy of radiotherapy.

Papers: *Assessment of Breast Shape and Volume Changes During 3D-Printed Bra-assisted Radiotherapy* (to be submitted)

Achievement: Verifying the effectiveness of the breast bracket

2. Leiguang Project

Project leader and Director: Min Wang   **Numbers of the participants:**20   **Duration:** 2021.5 -present

Project Introduction: To develop a security radar based on artificial intelligence, which would use radar and photoelectric camera to detect and track high altitude parabola. The radar can detect the range and azimuth of the target, and the camera can track and shoot the target in real time.

Institute: NATIONAL KEY LABORATORY OF SCIENCE AND TECHNOLOGY ON RADAR SIGNAL PROCESSING

Positions in the project: Developing and testing the upper computer; Data acquisition and verification

Achievement: The radar developed in Leiguang Project can realize real-time monitoring and tracking of high-altitude objects to help investigators identify the main responsible person for the accident, which leads the way in the similar field in China.

3. Queuing robot

Project Director: Yanhui Chen   **Project type:** Curriculum assignments   **Numbers of the participants:** 7

Project Introduction: To develop a robot to ease the boredom when people line up in playground and other public places.

Positions in the project: Secretary; development and design of upper computer (using JAVA and Android studio to develop a Smart4418SDK 1606 Android development board and design an interface for players to control. In this program, the player can understand the game rules, start the robot, and get all the feedback from the robot. Understand the points and wins and losses)

Achievement: Completing the project and getting 95 points in this course.

VOLUNTEER EXPERIENCE

Young Volunteer Team of Xidian University| Volunteer teacher   **JUL. 2019-AUG. 2019**
Location: Taozi Village, Zhaotong, Yunnan   **Numbers of the participants:** 15
Main work: Responsible for teaching history and health education; procurement for the team.
Gains: Learning a lot of knowledge in rural life.; increasing the thinking about mountain village education and having a further understanding of the individual social responsibility.

Awards and Certificates

MCM/ICM: S Prize
China College Students' 'Internet+' Innovation and Entrepreneurship Competition: Bronze Award in Xidian University
Micro course competition (held by Huawei**):** The first prize (college-level)