

# BAI Fan

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## Education

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**The University of Nottingham** **Sep 2011- July 2015**  
**(BEng) Electrical and Electronic Engineering**

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## Awards

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**Head's Scholarship** **2011-2012**  
**Dean's Scholarship** **2012-2013**

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## Relevant Academic Experience

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**Electrical Engineering Design Project** **Jan 2014- May 2014**

- Conducted the research for the control of a reluctance motor based on embedded system
- Responsible for the programming part of the control and successfully adopted PWM method for microcontroller to control the speed of motor
- Designed the closed loop for microcontroller to control the torque of motor

**Robot Gesture Control (Final Year Project)** **Sep 2014 – Present**

- Make an Aldebaran Nao Robot to mimic human gesture by interfacing it with a Xbox Kinect Camera
  - Establish the interface in PC which can convert human gesture into the representation of vectors in three-dimensional coordinate system
  - Set the algorithm to process the data and use the data to control the robot
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## Relevant Work Experience

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**Institute of Computing Technology, Chinese Academy of Science, Ningbo, China** **Jun 2012- Aug 2012**

- Worked on a project to design a product called "Posture detector" based on embedded system
- Conducted market research and evaluate the practicability of the product
- Designed the algorithm for gravity measurement based on C language and optimized the code
- Conducted the product test and came up with version 1.0
- Served as a coordinator in company's cooperation with IBM on "Smart City" project with specialty on "Smart logics" which focused on port logics management

**Oracle, Hangzhou, China** **June 2013 – July 2013**

- Assisted the team in the research of the realization of the anti-collision algorithm in RFID system
  - Collected and read 20 papers based on the stochastic algorithm (ALOHA) and helped the team come up with the optimized dynamic frame slotted ALOHA
  - Assisted the team to adopt Matlab to simulate the proposed algorithm and evaluate its performance
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## Position of Responsibilities

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**Minister of Activity Department, Campus Ambassador:** Successfully organized 'Campus Open day' in which received 5000 visitors across the nation for campus tour in May 14<sup>th</sup>, 2013

**Member of instrument group, Art Troupe:** Performed on UNNC 7<sup>th</sup> Christmas Show and UNNC 5<sup>th</sup> Art Festival Closing Ceremony. Nominated for the 'Annul Best Member' of 2012-2013

**Member of University Badminton Team:** On behalf of campus to compete in the 13<sup>th</sup> Zhejiang University Games

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## Skills

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**Communication skills:** Comfortable with public speaking, Active in group discussion

**Programming skills:** Embedded programming, C++, Matlab, Assembly language

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## Hobbies

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- Accordion for over 14 years, chamber music player
  - PC game: Counter Striker, Total War, StarCraft
  - Sports: Badminton, swimming, fishing, cycling
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