

# BO WU

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## EDUCATION

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### UNIVERSITY OF NOTRE DAME

Ph.D. in Electrical Engineering (GPA: 3.8/4)  
Two time recipient, Notebaert Professional Development Award  
Thesis: (Working Title) *Formal Methods in Control of Probabilistic Systems*  
Advisor: [Prof. Hai Lin](#),

Notre Dame, IN  
January 2017 (expected)

### LUND UNIVERSITY

Master of Science in Electrical Engineering (GPA: 4/4)

Lund, Sweden  
May 2011

### XI'AN JIAOTONG UNIVERSITY

Master Student in Electrical Engineering

Xi'an, China  
May 2009

### HARBIN INSTITUTE OF TECHNOLOGY

Bachelor of Science in Electrical Engineering (GPA: 89.7/100)  
Recipient, National Scholarship

Harbin, China  
July 2008

## PROFESSIONAL EXPERIENCE

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### UNIVERSITY OF NOTRE DAME, Research Assistant, [DISCOVER Lab](#)

Notre Dame, IN  
August 2011 – present

- Designed machine learning based framework for probabilistic systems control, resulting in 3 publications at IEEE top conferences
- Proposed a unified approach to multi-agent systems, combining top-down task allocation and bottom-up local control law such that connectivity and coordination can be guaranteed, research resulted in publication at the 2015 IFAC Conference on Analysis and Design of Hybrid Systems
- Analyzed the stability of networked control systems with practical communication protocol and proposed communication-control co-design, resulting in 2 top conference presentations and 1 journal (under review)
- Developed Baxter humanoid robot, utilizing Robot Operating System and Python to establish vision based robot sensing and manipulation
- Designed Unmanned Aerial Vehicle (UAV) interface structure, modifying the UAV firmware and programming the onboard computer to achieve autonomous indoor flight

### LUND UNIVERSITY

#### Master Project, Department of Electrical and Information Technology

Lund, Sweden  
August 2009-May 2011

- Analyzed real data with MATLAB collected by Ericsson AB, studying how multi-sector cooperation improves channel capacity in cellular networks. Project resulted in publication in peer viewed journal

## LEADERSHIP & SERVICE

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**Professional Affiliations:** IEEE, IEEE Control Society

**Leadership Activities:** American Control Conference, 2015, Session Chair; DISCOVER Lab, National Robotics Week, 2014 and 2015, Team Lead; Peer Reviewer for top conferences and journals

## TECHNICAL SKILLS

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**Computer Skills:** Proficient in C/C++, Python. MATLAB, Linux, Robotic Operating System.

**Languages:** Fluent in Mandarin