Bo Wu

252 Fitzpatrick Hall • Notre Dame, IN 46556 • (574) 631-3736 • [bwu3@nd.edu](mailto:bwu3@nd.edu)

**EDUCATION**

**UNIVERSITY OF notre dame** Notre Dame, IN

Ph.D. in Electrical Engineering (GPA: 3.8/4) Spring 2017 (expected)

Two time recipient, Notebaert Professional Development Award

Thesis: (Working Title) *Formal Methods in Control of Probabilistic Systems*

Advisor: [Prof. Hai Lin](http://www3.nd.edu/~hlin1/),

**Lund University** Lund, Sweden

Master of Science in Electrical Engineering (GPA: 4/4) May 2011

**Xi’an JIAOTONG UNIVERSITY** Xi’an, China

Master Student in Electrical Engineering May 2009

**Harbin Intitute of Technology** Harbin, China

Bachelor of Science in Electrical Engineering (GPA: 89.7/100) July 2008

Recipient, National Scholarship

**Professional EXPERIENCE**

**University of Notre dame,**  Notre Dame, IN

**Research Assistant,** [**DISCOVER Lab**](https://sites.google.com/a/nd.edu/discoverlab/) 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** Lund, Sweden

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

**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**

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

**Languages:** Fluent in Mandarin