

Lecturer, Department of Mechanical and Aerospace Engineering, Monash University, Clayton

## Education

*Ph.D in Mechanical Engineering*, May 2006.

University of California, Berkeley, CA.

Dissertation title: Autonomous helicopter formation: model predictive control approach

Prof. Shankar Sastry, Advisor

*M.S. in Precision Mechanical Engineering*, Aug 1999.

Hanyang University, Seoul, Korea.

Thesis title: ZMP compensation and impedance control for improving walking stability of biped robots

Prof. Jong H. Park, Advisor

*B.S. in Precision Mechanical Engineering*, Feb 1997.

Hanyang University, Seoul, Korea.

## Experience

### Assistant Researcher

*Robotics and Intelligent Machines Lab,  
University of California, Berkeley  
July 2009 – December 2009*

Berkeley, CA

Research on Micro Autonomous Systems and Technology

### Postdoctoral Researcher

*Robotics and Intelligent Machines Lab,  
University of California, Berkeley  
July 2006 – July 2009*

Berkeley, CA

Real-time software and hardware development for Unmanned Aerial Vehicles

### Graduate Student Researcher

*Robotics and Intelligent Machines Lab,  
University of California, Berkeley  
Fall 2000 – Winter 2005*

Berkeley, CA

Real-time software and hardware development for Unmanned Aerial Vehicles

### Research Assistant

*Mechatronics Lab, Hanyang University, Korea  
March 1997 – June 1999*

Seoul, Korea

Development of control algorithms for biped robots, dynamic analysis of continuously variable transmission

## Projects participated

Office of Naval Research, Autonomous Intelligent Network System Program  
under the grant N00014-99-10756 (Vision-based landing and formation flight)

Defense Advanced Research Agency, Software Enable Control Program  
under the grant F33615-98-C3614 (Vision-based landing and formation flight)

Defense Advanced Research Agency, Unmanned Combat Armed Rotorcraft  
under the grant F33615-98-C-3614 (Urban navigation and obstacle avoidance)

Army Research Office, Pilot-Directed Computer Assisted Helicopter Formation Flying  
under the grant ARO STTR W911NF-05-C-0088

Army Research Office MURI, Scalable sWarms of Autonomous Robots and Mobile Sensors (SWARMS), currently active

Army Research Laboratory, Micro Autonomous Systems and Technology Collaborative Technology Alliance (MAST-CTA), currently active

## Academic Activities

Member of IEEE and AIAA