

# Tse-Huai Wu

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## EDUCATION

Ph.D.	Mechanical & Aerospace Engineering The George Washington University	Expected May 2016
M.Sc.	Mechanical & Aerospace Engineering The George Washington University <i>Thesis: Spacecraft Relative Attitude Formation Tracking on SO(3) Based on Line-of-Sight Measurements</i>	2011-2013
B.Sc.	Power Mechanical Engineering National Tsing Hua University, Hsin Chu, Taiwan	2004-2008

## PUBLICATION

- **T. Wu** and T. Lee "Angular Velocity Observer on the Special Orthogonal Group for Velocity-Free Rigid-Body Attitude Tracking Control" in Proceedings of European Control Conference, 2015, submitted.
- **T. Wu** and T. Lee "Spacecraft attitude formation stabilization using lines-of-sight without angular velocity measurements" Presented at the AAS/AIAA Space Flight Mechanics Meeting, 2015, no. 441.
- **T. Wu** and T. Lee "Spacecraft Position and Attitude Formation Control using Line-of-Sight Observations" in Proceedings of Conference on Decision and Control, 2014, pp. 970-975.
- **T. Wu**, B. Flewelling, F. Leve, and T. Lee "Spacecraft Relative Attitude Formation Tracking on SO(3) Based on Line-of-Sight Measurements" in Proceedings of the American Control Conference, 2013, pp. 4820-4825.
- **T. Wu**, T. Lee, and M. Keidar, "Low-thrust attitude control for nano-satellite with micro-cathode thrusters" Presented at the 33rd International Electric Propulsion Conference, no. 366, 2013.

## RESEARCH SPECIALITY

Nonlinear control system design, attitude and position control, geometric control, robotics.

## SKILL

MATLAB, AutoCAD, Pro/Engineer, C/C++, Linux,

## EXPERIENCE

Graduate Research Assistant at The George Washington University <i>Conducting research as a PhD. student</i>	Jan. 2014 - present
Graduate Teaching Assistant at The George Washington University <i>Lecturing AutoCAD and Pro/Engineer</i>	Sep. 2011 – Jan. 2014
Summer Intern at Hoover Precision Product <i>Developing advanced CNC Macro programs for machining tools</i>	July 2011 - Sep. 2011
Engineering Assistant at Yaotyan Industrial Corporation, Taiwan R.O.C. <i>Developing CNC Macro programs for machining tools</i>	Jan. 2010 - Dec. 2010