

Stephen Chen

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Education

- Sep 2013 – **Ph.D, Mechanical Engineering**, *University of California, San Diego*, Advisor: Present Miroslav Krstic, GPA: 3.97/4.00.
Aug 2009 – **B.S. w/ Dean's Honors, Electrical Engineering and Computer Sciences**, *University of California, Berkeley*, GPA: 3.66/4.00.

Research experience

- Aug 2012 – **MPC Lab at UC Berkeley**, *Undergraduate researcher*.
May 2013 Constructed experimental testbed for lithium ion battery balancing and estimation algorithm validation and verification.
Oct 2011 – **MPC Lab at UC Berkeley**, *Undergraduate researcher*.
May 2012 Developed ordinary differential equation models of lithium ion batteries and Kalman filter based estimators for estimating state of charge and state of health for lithium ion batteries with online parameter identification.
Jan 2011 – **NML Group at UC Berkeley**, *Undergraduate researcher*.
Jul 2011 Designed and implemented an embedded system for nanomagnetic signal processing for parametric system identification.

Teaching experience

- Jan 2013 – **EECS Dept. at UC Berkeley**, *EE192 Teaching Assistant*.
Jun 2013 Taught a senior mechatronics design course in the EECS department at Berkeley, and prepared students for both the Freescale Cup and NATCAR intercollegiate competitions.

Work experience

- May 2012 – **Tesla Motors, Inc.**, *Firmware Intern*.
Aug 2012 Designed and refined battery models for predictive analytics concerning charging time.
May 2010 – **Automatic Control Lab at HKUST**, *Visiting student intern*.
Aug 2010 Evaluated, documented, and designed instructional experiments for control of DC servomotor and magnetic levitation systems.

Honors and Awards

Jacobs School of Engineering Powell Fellowship recipient
2013-2014 Outstanding GSI award, UC Berkeley

Professional activities

- Societies Member, IEEE Control Systems Society and Communications Society
Member, Society of Automotive Engineers
Member, Eta Kappa Nu