

Trudy L. Schwartz

University of Colorado
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Education

MS in Aerospace Engineering
University of Colorado, Boulder

December 1998

BS in Mechanical Engineering
University of Colorado, Boulder

December 1995

Teaching, Mentoring and Service

Aerospace Lab Manager, Senior Instructor

2005 - present

Aerospace Engineering Sciences, University of Colorado, Boulder

- Instructor for one section of undergraduate/graduate level PIC based embedded systems course: *Microavionics*. (Fall2016)
- Collaborate with faculty and supervise student staff to design, build, teach and conduct laboratory experiments in 15 undergraduate and graduate courses each academic year. Responsible for lab experiment hardware in the areas of aerodynamics, structures, controls, thermodynamics, vehicle design, materials, electronics, etc.
- Attend and grade senior design project presentations. Provide instrumentation and electronics technical support for labs, senior projects, graduate projects and research activities in the department.
- Staff, organize and maintain equipment in two separate Electronics and Instrumentation Laboratories that serve student, lab support and department needs.
- Coordinate the Earn/Learn funding program for the department.
- Manage department program fees to the support the department's lab support activities.

Aerospace Lab Manager, Senior Professional Research Associate

2003-2005

Aerospace Engineering Sciences, University of Colorado, Boulder

- Collaborated with faculty and staff to conduct laboratory experiments.
- Assisted senior design projects and provided instrumentation and electronics technical support.

Professional Experience

Module Integration Engineer

1997-2003

Integrated Teaching and Learning Laboratory (ITLL), University of Colorado, Boulder

- Provided technical support to faculty, staff and students using the ITLL for experimentation.
- Designed, built, configured and maintained computer data acquisition workbenches using National Instruments hardware and software.
- Maintained and designed laboratory experiments for multiple engineering departments.

University of Colorado, Aerospace Engineering Sciences Committees

- Undergraduate Curriculum Committee
- Computing Committee
- Instructor Search Committee

Honors and Awards

- Outstanding Service Award, Faculty award in the Aerospace Department.

2015

Outreach/Service

- Outreach provided to local middle and high school students to perform wind tunnel testing. Several
- Colorado Aerospace Internship Experience. (Summer annual event.) 2014-2016
This outreach event for Colorado students every summer to provide 2-day intensive rocket design build experience.

Publications

Schwartz, T., Dunkin, B. (2000) *Facilitating Interdisciplinary Hands-on Learning using LabVIEW*, Paper published in the International Journal of Engineering Education, 16(3), 218-227.