

Jillian Beth Schmidt

schmidtjb@mst.edu
507-261-4248

2018 B Holt Ave.
Rolla, MO 65401

Education:

- Ph.D. Materials Science and Engineering May 2015
University of Minnesota, Minneapolis, MN
- Bachelor of Aerospace Engineering and Mechanics May 2009
University of Minnesota, Minneapolis, MN

Teaching Experience:

- Associate Teaching Professor, Missouri S&T 2021–Present
- Assistant Teaching Professor, Missouri S&T 2015–2021
Responsible for teaching a four course-load equivalent each semester and participating in department outreach and recruitment activities.
Courses taught: Introduction to Engineering Design, Introduction to Spacecraft Design, Aerodynamics 1, Aerospace Structures 1, Experimental Methods 1, Thermofluid Mechanics 1

Curriculum Development Grants and Awards:

- Midwest Section Outstanding Teaching Award 2022
American Society for Engineering Education
- Outstanding Teaching Award, Missouri S&T 2021
- Dean's Educator Award, Missouri S&T College of Engineering and Computing 2020
- Faculty Achievement Award, Missouri S&T 2019
- CAFÉ Educational Research Minigrant 2018
Center for Advancing Faculty Excellence, Missouri S&T
Co-investigators: Dr. Warner Meeks and Dr. Henry Pernicka
- CERTI Curriculum Development Grant 2017
Center for Educational Research and Teaching Innovation, Missouri S&T

- Faculty-Led Study Abroad Development Grant 2017
Co-investigator: Dr. Jessica Cundiff, Department of Psychological Science
- Class of '42 Excellence in Teaching Award 2016

Refereed Conference Papers:

1. **Schmidt, JB**, Libre, NA, "Implementation and Evaluation of Active Learning Techniques: Activities for a Variety of Engineering Courses." 2020 ASEE Annual Conference & Exposition, Virtual Conference, June 22nd–26th, 2020.
2. **Schmidt, JB**, "Work in Progress: Development and Implementation of a Self-Guided Arduino Module in an Introductory Engineering Design Course." 2018 ASEE Annual Conference & Exposition, Salt Lake City, UT, June 26th, 2018.

Conference Presentations and Posters:

1. **Schmidt JB**, Davis J, Anklesaria Y, Pernicka HJ, "Virtual Space Camp: Explore Near Space from the Comfort of Your Home!" Academic High Altitude Virtual Conference, September 2020.
2. **Schmidt JB**, Meeks WC, Pernicka, HJ. "Evaluating the Impact of an Expanded Sophomore Design Curriculum for Aerospace Engineering Students." American Society for Engineering Education Midwest Section Conference, Wichita, KS, September 2019.
3. Davis J, Reynolds A, Anklesaria Y, **Schmidt JB**, Pernicka, HJ, "Development of a High-Altitude Balloon CubeSat Platform for Small Satellite Education and Research." 33rd AIAA/USU Conference on Small Satellites, Logan, UT, August 2019.
4. **Schmidt JB**, Meeks WC, Pernicka HJ. "Evaluating the Impact of an Expanded Sophomore Design Curriculum for Aerospace Engineering Students." Teaching and Learning Technology Conference, Missouri S&T, Rolla, MO, March 14th, 2019.
5. **Schmidt JB**, "Implementation of a Self-Guided Arduino Module in Introduction to Engineering Design." Teaching and Learning Technology Conference, Missouri S&T, Rolla, MO, March 15th, 2018.

Outreach and Campus Service Activities

- S&T Engagement Council, Member 2020–Present
- Space - The Final Frontier Summer Camp, Camp Coordinator 2017–Present
- Expanding Your Horizons Campus Event, Volunteer 2016–Present
- Jackling Introduction to Engineering Camp, Department Coordinator 2018, 2020
- Missouri S&T Makerspace, Pop-up Course Developer and Instructor 2016, 2017