

## CURRICULUM VITA

1. **Name:** Shield B. Lin
2. **Education:** B.S.M.E., National Chung-Hsing University, Taiwan, 1975.  
M.S.M.E., Texas A&M University, Kingsville, TX, 1981.  
Ph.D., M.E., Texas A&M University, College Station, TX 1986.
3. **Academic Experience:**

2018 Sep-Present	Prairie View A&M University, Professor in Mechanical Engineering.
2018 Jan-Aug	Prairie View A&M University, Professor and Interim Dean, College of Engineering.
2007-2017	Prairie View A&M University, Professor and Associate Dean of College of Engineering.
1997-2007	Prairie View A&M University, Professor and Department Head of Mechanical Engineering.
1991-1996	Prairie View A&M University, Associate Professor, Department of Mechanical Engineering.
1986-1991	Prairie View A&M University, Assistant Professor, Department of Mechanical Engineering.
1982-1986	Texas A&M University, Graduate Teaching/Research Assistant.
4. **Non-Academic Experience**

2008 - Present: Principle Investigator of a contractual project of “Software Simulation Initiative for Space Exploration” funded initially by L-3 Communications, currently CACI. Training Workshops in UNIX, C++, and TRICK simulation tools were held for students from Mechanical Engineering, Electrical Engineering, Computer Science, and Computer Engineering. Selected students from the workshops are given space related tasks under the supervision of technical mentors. During summer and winter breaks, students worked as interns at NASA Johnson Space Center. When students return to campus during the regular semesters, they conduct simulation work in the Software Simulation Lab on Prairie View campus. Dr. Lin holds weekly or bi-weekly teleconferences with the manager and technical mentors at CACI to review project tasks and student work progress. Dr. Lin’s current research task is design and simulation of a vibration isolation system for astronaut’s exercise platform.

Summer 1991 3M - Visual Systems Division, Austin, Texas. Validated and redesigned the structure of an overhead projector to reduce vibrational effects.

1981 - 1982 Staff Engineer, Centrifugal System Inc. Houston, Texas. Designed and evaluated salt water wash-down systems which used to separate oil from water.

1978 - 1979 Design Engineer, National Chung-Sun Scientific Center, Taiwan. Designed mixing machines for polymers and liquids.

1977 - 1978 Production Engineer, Tai-Fan Rubber Corporation, Taiwan. Designed and supervised the installation of production lines for rubber belts.
5. **Certification or Professional Registration:** Professional Engineer (Texas)

**6. Current Membership in Professional Organizations:**

Members of ASME, ASEE, Pi Tau Sigma, and Tau Beta Pi.

**7. Honors and Awards**

Outstanding Administrator's Award, and President Julius W. Becton's Award as a Leader at Prairie View A&M University.

**8. Service Activities**

- 2015 - 2018 The Engineering Field of Study Advisory Committee, Texas Higher Education Coordinating Board, Austin, TX; as a Co-Chair for the Mechanical Engineering Subcommittee.
- 2015 - 2018 "Voluntary faculty" at Lone Star Community College, help develop pre-engineering programs on Lone Star campus, Cypress, Texas.
- 2004 Served as a proposal reviewer for the National Science Foundation (NSF) for its CSEMS program, Washington DC.
- 1992 - 2003 Head Proctor of Fundamentals of Engineering Exam at Prairie View site for the Texas Board of Registration for Professional Engineers, twice a year.
- Various durations: Science Fair Judge for Jones Middle School, Prairie View, Texas.
  - Science Fair Judge for Schultz Middle School, Waller, Texas.
  - Support activities of Texas Alliance for Minorities in Engineering (TAME).

**9. Selected Publications and Presentations (Last 5 years)**

- S.B. Lin, "Finite Element Analysis and Design as a Degree Requirement in Undergraduate Mechanical Engineering Curriculum," ASEE Gulf-Southwest Annual Conference, Prairie View, TX, March 16-18, 2022.
- S.B. Lin, and Z.O. Williams, "Simulation with Uncertainties of Active Controlled Vibration Isolation System for Astronaut's Exercise Platform," International Journal of Mechanical and Mechatronics Engineering, Vol. 15, No.11, pp.471-478, 2021.
- S. Lin and S. Abdali, "Simulation of Active Controlled Vibration Isolation System for Astronaut's Exercise Platform," International Journal of Mechanical and Mechatronics Engineering, Vol. 15, No.2, pp.107-112, 2021.
- S. Lin and S. Abdali, "Simulation of Active Controlled Vibration Isolation System for Astronaut's Exercise Platform," International Conference ICDMAA 2020 on Dynamic Mechanical Analysis and Applications, Venice, Italy, November 12-13, 2020.

**10. Examples of Professional Development Activities**

- "Software Simulation Initiative for Space Exploration" training workshops in UNIX, C++, and TRICK simulation tools in 2011, 2013, 2015, 2018, 2019, and 2021.
- "Building eCourse Workshop" to faculty in the College of Engineering at Prairie View A&M University, January 15, 2016. Dr. Lin is the facilitator and a trainer.
- "The Challenges of Advanced Material Systems Design" co-hosted by ANSYS and the UT Arlington Research Institute, May 28, 2014.
- "Multiphysics Simulation using ANSYS Workbench Finite Element Program," Houston, Texas, April 15-17, 2014.