

The Educator of the Month, December 2022

Dr. [Hong Zhou](#), Professor of Mechanical Engineering



Education

- ✓ Ph.D., Mechanical Engineering, Tennessee Tech University, TN, USA, August 2005.
- ✓ M.S., Mechanical Engineering, Southeast University, Nanjing, China, March 1989.
- ✓ B.S., Mechanical Engineering, Northern Jiaotong University, Beijing, China, July 1983.

Selected Honors and Awards

- ✓ Outstanding Graduate Instructor Teaching Award, TAMUK, 2022.
- ✓ Fellow of the American Society of Mechanical Engineers (ASME), 2019.
- ✓ Best Paper Award on Compliant Mechanism Theory, Mechanisms & Robotics Committee, ASME, 2012.
- ✓ Outstanding Teaching Award, College of Engineering, TAMUK, 2012.
- ✓ Outstanding Teaching Award, College of Engineering, TAMUK, 2010.



Selected Publications with Some Advised Students at TAMUK

- 1) Saul Munoz, Hong Zhou, Solar Tracking Using Four-Bar Mechanisms, Proceedings of the ASME 2022 International Mechanical Engineering Congress and Exposition, IMECE2022-94131, 2022.
- 2) Yashkumar Rameshbhai Sutariya, Hong Zhou, Darrieus Wind Turbines with Twisted Blades, Proceedings of the ASME 2022 International Mechanical Engineering Congress and Exposition, IMECE2022-94124, 2022
- 3) Ali Safdar Naif, Hong Zhou, Elliptical Machines Using Adjustable Linkages, Proceedings of the ASME 2021 International Mechanical Engineering Congress and Exposition, IMECE2021-70047, 2021.
- 4) Premkumar Pujali, Hong Zhou, Constant Force Compliant Mechanisms without Preloading, Proceedings of the ASME 2021 International Design Engineering Technical Conferences, DETC2021-69958, 2021.
- 5) Harshkumar Patel, Hong Zhou, Analysis and Synthesis of Conical Coil Springs, Proceedings of the ASME 2021 International Design Engineering Technical Conferences, DETC2021-69971, 2021.
- 6) Jay Betai, Hong Zhou, Solar Tracking Using Linear Actuator, Proceedings of the ASME 2020 International Mechanical Engineering Congress and Exposition, IMECE2020-23607, 2020.
- 7) Ishit Gandhi, Hong Zhou, Synthesis of Constant Torque Compliant Mechanisms Using Precompressed Beams, ASME Journal of Mechanical Design, Vol. 141, No. 1, 014501, 2019.
- 8) Hari Nair Prakashah, Hong Zhou, Synthesis of Constant Torque Compliant Mechanisms, ASME Journal of Mechanisms and Robotics, Vol. 8, No. 6, 064503, 2016.