MICAH OEVERMANN

College Station, Texas
mjooevermann@gmail.com

EDUCATION

Texas A&M University, College Station *December 2021*
B.S. in Mechanical Engineering
Overall GPA: 3.90

EXPERIENCE

Robotics Automation and Design Lab Janurary 2022 - Present
Graduate Research Assistant *College Station, TX*

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AJAX Hosting December 2009 - October 2010
Lead Developer *Austin, TX*

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TinySoft January 2008 - April 2010
Web Designer & Developer *Gainesville, GA*

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TECHNICAL STRENGTHS

Computer Languages	Prolog, Haskell, AWK, Erlang, Scheme, ML
Protocols & APIs	XML, JSON, SOAP, REST
Databases	MySQL, PostgreSQL, Microsoft SQL
Tools	SVN, Vim, Emacs

PUBLICATIONS

Journal Articles

Empirically Compensated Setpoint Tracking for Spherical Robots With Pressurized Soft-Shells
Derek J Pravecek, **Micah J Oevermann**, Gray C Thomas, Robert O Ambrose
IEEE Robotics and Automation Letters (2025). 2025

Peer Reviewed Conference Papers

Scaling of RoboBall: A Parametric Robot Family for Crater Exploration
Rishi V Jangale, Aaron Villanueva, Garrett Jibrail, **Micah J Oevermann**, Derek J Pravecek, Meghali P Dravid, Robert O Ambrose
2025 IEEE Aerospace Conference, 2025

A Pressure Model and Control System for a Pressurized Pendulum Driven Spherical Robot
Micah J Oevermann, Meghali P Dravid, Derek J Pravecek, Will Olejnik, Robert O Ambrose
2025 22nd International Conference on Ubiquitous Robots (UR), 2025

Design of a Soft Shell for a Spherical Exploration Robot Traversing Varying Terrain
Meghali Prashant Dravid, **Micah Oevermann**, David McDougall, David Dugas, Robert Ambrose
2024 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2024

A Soft Spherical Robot for Lunar Crater Exploration
Micah Oevermann, Meghali Prashant Dravid, Garrett Jibrail, Jared Janak, Rishi Jangale, David McDougall, David Dugas, Robert O Ambrose
AIAA SCITECH 2024 Forum, 1961, 2024, 2024

Roboball: An all-terrain spherical robot with a pressurized shell
Micah Oevermann, Derek Pravecek, Garrett Jibrail, Rishi Jangale, Robert O Ambrose
2024 IEEE International Conference on Robotics and Automation (ICRA), 2024

Presented Abstracts

A System for Exploring Craters and Shadowed Regions of the Lunar South Pole
Meghali Dravid, **Micah Oevermann**, Robert Ambrose
ASCE Space and Earth Conference, 2024

RoboBall Recap: Past, Current, and Future Inflatable Spherical Robots
Rishi Jangale, **Micah Oevermann**, Garrett Jibrail, Derek Pravecek, Meghali Dravid, Aaron Villanueva, Robert Ambrose
40th Anniversary of the IEEE International Conference on Robotics and Automation, 2024

Persistent intelligence, Surveillance and Reconnaissance for the Lunar Surface
Robert Ambrose, **Micah Oevermann**, Meghali Dravid, Garrett Jibrail
AIAA ASCEND Conference, 2023

Design and Dynamics of Rugged Soft Shells for a Pendulum-Driven Spherical Robot
Micah Oevermann, Meghali Dravid, Garrett Jibrail, Robert Ambrose
OSU International Mechatronics Conference and Exposition, 2023