John E Hurtado

Division Leader, Engineering Technology & Design Associate Laboratory Directorate for Weapons Engineering Los Alamos National Laboratory Professor Emeritus of Aerospace Engineering Texas A&M University Academic website https://hurtado.tamu.edu/

Professional Preparation

Texas A&M University	College Station, TX	Aerospace Engineering	PhD	1995
Texas A&M University	College Station, TX	Aerospace Engineering	MS	1991
San Diego State University	San Diego, CA	Aerospace Engineering	BS	1988

Career Appointments

Jan 2025 - Present Division Leader, Engineering Technology & Design Division, Associate Laboratory Directorate for Weapons Engineering, Los Alamos National Laboratory, Los Alamos, NM. Project Director, Strategic Deterrence Systems and Special Projects, Associate Laboratory Directorate for Weapons Engineering, Los Alamos National Laboratory, Los Alamos, NM. Professor Emeritus of Aerospace Engineering, Texas A&M University, College Station, TX. Acting Group Leader for the Advanced Engineering Analysis Group, W-13, Los Alamos National Laboratory, Los Alamos, NM. Research and Development Engineer, Associate Laboratory Directorate for Weapons Engineering, Los Alamos National Laboratory, Los Alamos, NM. Returned to faculty, Department of Aerospace Engineering. Interim Vice Chancellor of Engineering, The Texas A&M University System, College Station, TX. Interim Dean of Engineering, Texas A&M University, College Station, TX. Platform Lead, Precision Navigation & Timing, College of Engineering, Texas A&M University, College Station, TX. Platform Lead, Precision Navigation & Timing, College of Engineering, Texas A&M University, College Station, TX. Sep 2015 – Aug 2019 Sep 2015 – Aug 2019 Sep 2014 – Dec 2014 Sep 2014 – Dac 2015 Sep 2015 – Aug 2019 Sep 2014 – Dac 2014 Sep 2015 – Aug 2015 Sep 2015 – Aug 2015 Sep 2016 – Aug 2016 Sep 2017 – Aug 2017 Sep 2017 – Aug 2017 Sep 2018 – Aug 2018 Sep 2018 – Aug 2019 Sep 2019 – Aug 2014 Sep 2010 – Aug 2014 Sep 2014 – Dac 2014 Sep 2017 – Aug 2015 Sep 2014 – Dac 2014 Sep 2017 – Aug 2016 Sep 2017 – Aug 2017 Sep 2018 – Aug 2017 Sep 2018 – Aug 2018 Sep 2018 – Aug 2019 Sep 2019 – Aug 2014 Sep 2019 – Aug 2014 Sep 2017 – Aug 2014 Sep 2017 – Aug 2014 Sep 2017 – Aug 2014 Sep 2018 – Aug 2017 Sep 2018 – Aug 2018 Sep 2019 – Ber 2019 Sep 2019 – Ber 2019 Sep 2010 – Aug 2014 Sep 2010 – Aug 2014 Sep 201	Career Appointments	
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	Aug 1995 – 1999	Senior Member of Technical Staff, Sandia National Laboratories, Albuquerque, NM.

Six Impactful Publications (* student) (41 Journal and arXiv Articles)

1. Hurtado, J.E., "First-Order Forms in Analytical Dynamics," Journal of Guidance, Control, and Dynamics, Vol. 47, No. 10, 2024, pp. 2230-2.

- 2. Hurtado, J.E., "Analytical Dynamics of Variable-Mass Systems", Journal of Guidance, Control, and Dynamics, Vol. 41, No. 3, 2018, pp.701-9.
- 3. Hurtado, J.E., Sinclair, A.J., "State Transition Matrix, Motion Constants, and Ergodicity of the Euler-Poinsot Problem", Nonlinear Dynamics, Vol. 85, Iss. 3, 2016, pp. 2049–63.
- 4. Sinclair, A.J., and Hurtado, J.E., "The Motion Constants of Linear Time-invariant Dynamic Systems," Applied Mechanics Reviews, Vol. 65, Iss. 4, 2013, 9 pages.
- 5. Hurtado, J.E., and Sinclair, A.J., "Lagrangian Mechanics of Overparameterized Systems," Nonlinear Dynamics, Vol. 66, Iss. 1, 2011, pp. 201-12.
- 6. Hurtado, J.E., and Sinclair*, A.J., "Hamel Coefficients for the Rotational Motion of an N-Dimensional Rigid Body", Proceedings of the Royal Society of London Series A: Mathematical, Physical and Engineering Sciences, Vol. 460, No. 2052, 2004, pp. 3613-30.

Other Significant Work

Co-inventor on three patents associated with mobile robotics and distributed optimization including miniature robots that now reside in the National Museum of American History at the Smithsonian Institution.

Synergistic Activities

Jun 2021 – Jul 2023 . As Interim Vice Chancellor and Dean, achieved for the first time ever the number one ranking in engineering research expenditures, surpassing MIT (USNWR academic year 2023): \$444.7M. Also achieved institutional goal of 25,000 engineering students by the year 2025 (the 25x25 initiative) in fall semester 2023.

Fall 2020 . Co-chaired the Texas A&M University President's Commission on Diversity, Equity and Inclusion resulting in a nearly 100-page report with findings across the principal areas of mission and values, campus culture and climate, data and policies, and community engagement.

Fall 2019 . Established, organized, and opened the George H.W. Bush Combat Development Complex for the Texas A&M Engineering Experiment Station, College Station, TX.

2014 – 2018 . Designed, established, and shepherded eight education programs that are excellent examples of innovations in teaching and learning including entrepreneurship, leadership, the intersection of engineering and medicine, interdisciplinary programs, and the inclusion of art into the engineering curriculum.

2001 – present . Contributed to the creation and integration of knowledge for the academic community through groundbreaking and innovative work in analytical dynamics: Provided the first-ever clear understanding of minimal, redundant, and overparameterized descriptions for Lagrangean mechanics, which is a field that is more than 200 years old; provided the first-ever treatment of complete motion constants for all linear time-invariant autonomous systems; provided a novel and original state transition matrix, set of motion of constants, and ergodicity check for the Euler-Poinsot problem, which is the most classic among rigid body rotational motion problems; provided a new rigorous analytical dynamics development and set of Lagrangean equations for variable mass systems; and provided a new universal, overparameterized, descriptive function for analytical dynamics that is a fountainhead to all first-order kinematic and kinetic differential equations of motion.

PhD Research Advisor. John L Junkins, Texas A&M University, Distinguished Professor of Aerospace Engineering, Regents Professor, Holder of the Royce E. Wisenbaker Chair, Founding Director of the Texas A&M University Hagler Institute for Advanced Study, National Academy of Engineering Member, and National Academy of Inventors Member.

Collaborators . Kurt Aures-Cavalieri (Sandia National Laboratories), Kevin Brink (Munitions Directorate, Eglin AFB), Brian Owens (SNL), Julie Parish (SNL), and Andrew J Sinclair (Space Vehicle Directorate, KAFB).

Former Student Advisement (past five years; more than 40 students total). Timothy Woodbury (Sr Aerospace Engineer, Emergent Space Technologies, Inc.), Humberto Ramos Zuniga (Postdoctoral researcher, Univ of Florida Innovation Station at the Research and Education Engineering Facility), Gregory Arleth (Aerospace Software Engineer, Odyssey Space Research), and COL Chris Hill (Project Manager, Integrated Fires Mission Command).