

# Luis Adrian Zuniga

## Aviles

Subjects: [Others](#) | [Engineering, Biomedical](#) | [Automation & Control Systems](#)

Contributor: LUIS ADRIAN ZUNIGA AVILES

Dr. Adrian was a Researcher of the Applied Research Center and Technology Development from the Mexican Military Industry (CIADTIM). He is a Major Industrial Engineer after serving 21 years in the Mexican army. He holds a Ph.D. and a master's degree in Science and Technology on Mechatronics from the Center for Engineering and Industrial Development (CIDESI). He holds a Bachelor's degree in Military Industrial Engineering and mechanical engineering specialty from Military School of Engineers (EMI), Mexican Army and Air force University.

Mechatronics robot design methodology bioengineeri

Dr. Adrian has been interested in New Product Development and research activities. In the field of research, his interest focuses on the mechatronics design process, design methodologies, Robotic Exoskeletons for Rehabilitation and Motion Assist, design of mechanisms and machines, test benches, analysis for finite element method (FEM), kinematics modeling and simulation, wheeled mobile robots, manufacture technologies, and rapid prototypes.

He has authored more than 100 works, including conference presentations, proceedings, books, patents, journals, articles, and industrial reports.

Nowadays, Dr. Zuniga is a member of the research group "Dynamics and Control Systems" of the Faculty of Engineering of the Autonomous University of the State of Mexico (Universidad Aut3noma del Estado de M3xico, UAEMex).

Some of his current projects are the following:

He participated in the Design of an Exoskeleton based on Four Cases of Upper Limb Rehabilitation Study, design patent pending MX/F/2018/000467 and research article: <https://doi.org/10.17488/RMIB.39.1.7>

He participated in the Design of a Continuous passive mobilizer for knee, design patent pending MX/F/2017/003869.

He participated in the Design of a Continuous passive mobilizer for upper limb, patent-pending product invention MX/a/2018/006933, and design patent pending MX/F/2017/003870.

He participated in the Design of a Hand prosthesis.

He participated in the Design, Development, and Implementation of a System for patients lifting, design patent pending MX/F/2018/000538.

He participated in the Design of an orthodontic mechanism, design patent pending MX/F/2018/000274.

He participated in the Design, Development, Construction, and Implementation of a Machine for the applicator sealer to ammunitions, design patent pending MX/F / 2018/001070.

He participated in the Design, Development, and manufacturing of a Controlled tripping mechanism for armament, granted patent product invention MX/a/2014/000168.

He participated in the Design, Development, and manufacturing of a tripping mechanism for a weapon, granted patent product invention PA/a/2006/007961.

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