

DATOS GENERALES:

NOMBRE : Hermes Moreno Alvarez
FECHA DE NACIMIENTO : 17 de Mayo de 1976.
LUGAR DE NACIMIENTO: México D.F.
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PERSPECTIVAS PROFESIONALES

Involucrarme en el desarrollo e investigación de técnicas innovadoras para ingeniería aeronáutica y aeroespacial en control así como mejorar y adaptar las tecnologías ya existentes mediante la colaboración interdisciplinaria en instituciones de educación superior, así como la participación en la formación de recursos humanos através de programas de postgrado.

CUALIDADES PROFESIONALES:

- Conocimientos en la estabilización magnética de microsatelites
- Conocimientos de control y estabilizacion.
- Mecánica Orbital.
- Conocimientos de Física y Matemáticas.
 - Cálculo Integral y Diferencial
 - Ecuaciones Diferenciales
 - Álgebra Lineal
 - Análisis Vectorial
 - Métodos Matemáticos
 - Métodos Numéricos
 - Etc.
 - Física Clásica
 - Mécánica
 - Electricidad y Magnetismo
 - Termodinámica.
 - Mecánica Celeste
 - Mecánica Orbital.
 - Etc.
- Historia de la Aviación.
- Conocimientos elementales teóricos de procesos de manufactura.
- Conocimientos básicos en motores de combustión interna.
- Conocimientos en la enseñanza de la Física y Matemáticas.
- Aptitud en la expresión oral y escrita.
- Conocimiento en el uso de las computadoras.
- Habilidad para trabajar en equipo.

IDIOMAS: Español, Inglés Toefl 563 puntos, Ruso 65% hablado y escrito.

GRADOS DE INSTRUCCIÓN

ESTUDIOS SUPERIORES: Benemérita Universidad Autónoma de Puebla
Facultad de Ciencias Físico-Matemáticas
Colegio de Física (1995-2001)

MAESTRIA EN CIENCIAS

BUAP-UNIVERSIDAD ESTATAL DE MOSCU. (2004-2006).

DOCTORADO

UNIVERSIDAD ESTATAL DE MOSCÚ (2009- 2012)

TRABAJOS REALIZADOS:

Experiencia docente: Diversos Bachilleratos 2001-2004.

Benemérita Universidad
Autónoma de Puebla
(BUAP):

Licenciatura: Docente de las materias de Biomatemáticas I, Biomatemáticas II, Cálculo Diferencial e Integral, Ecuaciones Diferenciales, Probabilidad y Estadística, Aerodinámica (2006-2009).

TRABAJOS DE INVESTIGACIÓN:

1. Interacción gravitacional entre un cuerpo rígido y una partícula.
2. Participación en el proyecto UNAM-IPN-BUAP y la Universidad Estatal de Moscú para el desarrollo de microsátélites.
3. Estabilización geomagnética de un microsátélite
4. Estudio del sistema de estabilización magnética activa para microsátélites
5. Estudio de estabilización giroscópica para microsátélites
6. Estudio de pruebas maximin de calidad de estabilización robusta
7. Prácticas en el centro de control del microsátélite "Tatiana".

8. Miembro del equipo para el desarrollo del satélite mexicano SATEX 2, en el área de estabilización y control.

Las investigaciones , estudios y prácticas de los puntos 3 al 8 se llevarón a cabo en la Universidad Estatal de Moscú.

Referencias

Disponibles a petición.

Puebla México.2012

Su seguro servidor
c.Dr. Hermes Moreno Alvarez

Objective

To obtain a position that will enable me to use my knowledge in the Aerospace field, educational background, and ability to work under pressure. I want an opportunity to show you how capable and responsible I'm when a chance of getting a job is given to me.

Education

Bachelor in Aerospace Engineering (Graduation date: May-11-2012, GPA: 3.416)

Minor in Mechanical Engineering

New Mexico State University

Las Cruces, New Mexico

Relevant Courses at NMSU

Aerospace Structures, Aerodynamics, Propulsion, Flight Dynamics and Control, Aero Systems Engineering, Heat Transfer, Orbital Mechanics

Bachelor in Civil Engineering (2004 to 2009)

Universidad Autonoma De Chihuahua (UACH)

Chihuahua, Chihuahua, Mexico.

Relevant Courses at UACH

Steel Structures, Concrete Structures, Hydraulic, Structural Analysis, Evaluation of Projects, Human Resources, Structural Design

Work Experience

RYG Constructions, working as a Civil Engineer (Chihuahua, Mexico.)

2008-2010

- Supervising and coordinating personnel
- Working in some projects for the government, mainly, building up schools
- Managing the expenses of the company
- Making budgets
- Looking for proper materials according to the needs of the construction
- Building up retaining walls

Teaching Mathematics and Physics as a particular Teacher (Chihuahua, Mexico)

2008-2010

Software skills

Siemens NX, Math Lab, Auto Cad, Word, Access, Power Point, Opus

Languages

Spanish and English

Activities Involved in a project for the Federal Aviation Administration for saving energy at the airports

Víctor Cámara

C. Florencio Villarreal 6513
Chihuahua, Chihuahua. C.P. 31100
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Ingeniero aeroespacial dinámico y positivo que se desempeña en la industria de manufactura y diseño aeroespacial. Busca incursionar en el ámbito académico para generar en sus alumnos un conocimiento útil y significativo, además de promover una cultura de compromiso, trabajo y responsabilidad.

Educación

Ingeniería Aeroespacial

New Mexico State University. Las Cruces, Nuevo México. EE.UU. *Ago. 2011- Dic. 2012.*

Universidad Autónoma de Chihuahua. Chihuahua, Chihuahua. *Ago. 2008 – Mayo 2011*

Énfasis: Ingeniería Mecánica

Promedio: 3.5 /4

Egresado de ambas universidades

Experiencia

SAFRAN Engineering Services

Chihuahua, Chihuahua. *Feb. 2013 – A la fecha*

Ingeniero de Diseño Full 3D

- Crear, actualizar y modificar dibujos en 3D de la instalación eléctrica para la aeronave Airbus A350, de acuerdo a los requerimientos del cliente.
- Evaluar y generar nuevos procesos que contribuyan a la mejora continua de las actividades de diseño.

NMSU Departamento de Ingeniería Mecánica y Aeroespacial

Las Cruces, Nuevo México. *Ago. 2012 – Dic. 2012*

Ingeniero de Proyecto Final de Carrera

- Diseñar y construir un sistema de alas rotativas desplegadas para el motor de un cohete. Este sistema da la posibilidad de aterrizar el motor en un lugar determinado para poder recuperarlo fácilmente.

Miembro del equipo SAE Mini Baja.

- Rediseñar el compartimiento del motor y transmisión de un vehículo mini baja para optimizar espacio, así como reducir peso y dimensiones del auto.

Centro de Capacitación para el Trabajo Industrial

Chihuahua, Chihuahua. *Ago. 2010 – Junio 2011*

Prestador de servicio social en el taller automotriz.

- Supervisar las prácticas de los estudiantes en mantenimiento preventivo del automóvil y en servicio al sistema de frenos.
- Enseñar el uso de herramientas de medición como micrómetros y vernieres.

Certificaciones

Ensamble de Estructuras Aeroespaciales. Chihuahua, Chihuahua. 2010

Centro de Entrenamiento en Alta Tecnología

Mantenimiento a Motores y Servicio Automotriz. Chihuahua, Chihuahua. 2010 -2011

Centro de Capacitación para el Trabajo Industrial

Software e Idiomas

- | | |
|------------------|---------------|
| • Unigraphics NX | • Inglés 100% |
| • CATIA | • Francés 70% |
| • Matlab | |
| • Enovia | |

PERSONAL INFORMATION

Carlos Eduardo Sánchez Ramírez

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PROFESSIONAL EXPERIENCE

3 Mar 2013 - Present

Design Engineer I

Zodiac Seats US - Zodiac Aerospace, Chihuahua, Chihuahua, México

- Supporting the project engineering department in the timely completion of aircraft seat projects.
- Using 3D CAD tools to redesign seats parts and assemblies.
- Documenting drawing modifications and monitoring their completion.

UNDERGRADUATE DESIGN
PROJECTS AND RESEARCH

1 Sep 2012 - 30 Nov 2012

Aerodynamics Team Lead

2012-2013 AIAA Design-Fly-Build Competition, Las Cruces, NM

- Designed a student competition Blended Wing Body aircraft using Unigraphics NX
- Calculated aerodynamics and flight dynamics coefficients
- Coordinated design activities of team members and documented progress reports

1 Sep 2012 - 5 Dec 2012

Lead Engineer

Conceptual Aircraft Design Project - Las Cruces, NM

- Designed a Solar-Powered Low-Altitude Unmanned Aerial Surveillance Vehicle
- Calculated aerodynamics and flight dynamics coefficients and performance estimations
- Designed the wing of the aircraft using Unigraphics NX

16 Jun 2011 - 16 Aug 2011

Research Assistant

Center for Research and Advanced Studies (CINVESTAV-IPN), Mexico City, Mexico

- Created internal and external structural parts of a UAV using CATIA V5
- Optimized aerodynamics and improved longitudinal stability by designing C-shaped winglets
- Tested the design using Aerologic CFD software

3 Mar 2011 - 3 Jun 2011

Lead Engineer

Zodiac Seats US - Zodiac Aerospace, Chihuahua, Chihuahua, Mexico

- Designed an innovative commercial aircraft seat for tourist passengers as part of a worldwide competition using Unigraphics NX
- Stress-tested the design using NASTRAN
- Managed design activities of the group and presented design updates

20 Aug 2010 - 10 Feb 2011

Research Assistant

Advanced Materials Research Center (CIMAV), Chihuahua, Chih. (Mexico)

- Assisted Dr. Roberto Martínez Sánchez in the research of advanced nickel-based coating alloys utilized in aircraft turbine blades
- Performed x-ray diffraction, hardness tests, thermal treatments, and analysis of diffraction data
- Co-authored a paper for the 2011 ISMANAM Conference in Gijón, Spain

EDUCATION AND TRAINING

- 20 Aug 2008 - 14 Dec 2012 Dual Bachelor of Science in Aerospace Engineering with a Minor in Mechanical Engineering
New Mexico State University, Las Cruces, NM
Universidad Autónoma de Chihuahua, Chihuahua, Mexico
- 10 Jun 2010 - 10 Jul 2010 Aircraft Structures Assembly Certificate
High Technology Training Center (CENALTEC), Chihuahua, Chih. (Mexico)
- Interpretation of aeronautical manufacturing blueprints
 - Identification of common errors in riveting structures
 - Drilling, riveting, and assembly of aluminum 2024, 60601, and 7071 metal sheets.

PERSONAL SKILLS

- Computer skills
- Engineering software: Unigraphics NX; Solidworks; CATIA V5, AutoCad, MATLAB
 - Microsoft Office (Word, Excel, Power Point)
- Communication skills
- Good ability to adapt to multicultural environments, gained through teamwork in projects abroad
 - Excellent communication skills gained through leading design teams and oral presentations
- Organisational / managerial skills
- Leadership
 - Project coordination
- Language skills
- Fluent English, Fluent Spanish, and Basic German

ADDITIONAL INFORMATION

- Publications
- L. C. Ortiz-Luévano, C. E. **Sánchez-Ramírez**, J. González-Cantú, V. M. Orozco-Carmona, I. Estrada-Guel, J. M. Herrera-Ramírez, R. Martínez-Sánchez, "Characterization of Ni64Co20Cr_xTi_y alloys obtained by mechanical alloying and applied by Air Plasma Spray." International Symposium on Metastable, Amorphous, and Nanostructured Materials, Gijon, Spain, June 26th - July 1st, 2011.
- Goeser, P.T., Johnson, W.M., Hamza-Lup, F.G., Sopin, I., **Sanchez, C.** and Hager, P. "A Different VIEW: Virtual Interactive Engineering on the Web." The 2009 Annual ASEE Conference & Exposition, Austin, Texas, June 14th - 17th, 2009.
- Presentations
- Sánchez Ramírez, C.** and Vázquez Peña, C., "Stability Optimization of a Subsonic Flying Wing Configuration" Poster Presentation at the 21th Scientific Research Summer, Mexican Academy of Sciences (AMC), Mexico City, Mexico, July 28th, 2011. Faculty Advisor: Dr. Hugo Rodríguez Cortes.
- Sopin, I., **Sanchez, C.** and Hager, P., "A Different VIEW: Virtual Interactive Engineering on the Web," Poster Presentation at the Techfest, South University, Savannah, Georgia, April 2008. Faculty Advisors: Drs. Hamza-Lup, F., Goeser, P.T. and Johnson, W.M. Received 2nd place in the competition.
- Sopin, I., **Sanchez, C.**, "3-D Medical Systems Modeling"
Poster Presentation at AASU's 13th Annual Student Research Symposium, 23rd April 2007. Faculty Advisor: Dr. Hamza-Lup, F. Received 3th place in the poster competition.
- Memberships
- American Institute of Aeronautics and Astronautics (AIAA)

Pedro Alberto Muela Molina

Curriculum Vitae

E-mail albmuela17@gmail.com

Tel. Cel. (614)-120-1735

Aeroespacial

Educación

Ingeniería Aeroespacial, Minor Ingeniería Mecánica

New Mexico State University, Las Cruces, NM.

Agosto 2011 – Diciembre 2012

GPA 3.61/4.0

Ingeniería Aeroespacial

Universidad Autónoma de Chihuahua, Chihuahua México. **Agosto 2008 - Mayo 2011**

Proyectos

- Diseño de elementos de máquina: Diseño de transmisión de automóvil.
- Propulsión: Análisis completo de un Scramjet, a seis veces la velocidad del sonido.

AIAA DBF NMSU team (Design, Build, Fly)

Agosto. 2012 - Diciembre 2012

- Diseñé el avión a control remoto, analizando el comportamiento aerodinámico de las alas, y diseñar el prototipo de la estructura del avión.
- Formé parte del equipo de estructuras, seleccionando y probando diferentes tipos de material para el ala y la envergadura.

Prácticas Profesionales

Ingeniero en Manufactura, Intern
Cessna, Textron Aerospace de México
Chihuahua, México.

Marzo 2013-Presente

Certificaciones

Ensamble de Estructuras para Aeronaves

Junio-Julio 2010

CENALTEC (Centro de Entrenamiento de Alta Tecnología). Chihuahua, México.

Diplomado de Inglés, Universidad Autónoma de Chihuahua,

2008-2010

Trabajo Voluntario

Asistente Administrativo
Asilo de Niños y Casa Hogar I. de BP.
Chihuahua, México.

Agosto 2010 - Julio 2011

Habilidades

- CAD, Siemens NX
- Microsoft Office
- Matlab
- Administrador de proyectos

Idiomas

- Español (Materno), Inglés (Fluido), Árabe (Básico)
-

Eloy N. Marquez Gonzalez

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OBJECTIVE

A challenging engineering position integrating, testing, and fielding modern mechanical and/or aeronautical/space systems that provides safe and innovative solutions to the ever changing world.

EDUCATION

New Mexico State University

Master in Science – Aerospace Engineering, August 2011

Relevant Courses: Spacecraft Attitude Dynamics and Controls
Plasma Dynamics & Space Weather

Las Cruces, NM

GPA: 3.3 out of 4

Gas dynamics

Experimental Fluid Mechanics

GPA: 3.5 out of 4

Bachelor in Science – Aerospace Engineering, December 2009

Minor: Mathematics and Mechanical Engineering. **Tau Beta Pi honors.**

Relevant Courses: Systems Engineering MATLAB Programming
Control Systems Orbital Dynamics

Autonomous University of Chihuahua (UACH)

Chihuahua, Mexico

Bachelor in Science – Civil Engineering, August 2004 – August 2006 GPA upon transfer:

8.1 out of 10

EXPERIENCE

8/12 – Present

Autonomous University of Chihuahua (UACH)

Chihuahua, MX

Associate Professor

- Project Analysis and Evaluation (Process Technology Engineering)
 - Fundamental knowledge about project evaluation and in particular investment decisions within the environments of industrial enterprises.
 - Provide knowledge of financial considerations related to investment decisions in industrial organizations.

5/12 – Present

Arnprior Aerospace Chihuahua

Chihuahua, MX

Material and Process Engineer

- Quality Assurance and Engineering
 - Evaluate materials and processes, and their limitations.
 - Support organizational ISO 9001 / AS9100 and NADCAP compliance.
 - Evaluate lab test results, make non-conformance dispositions related to materials and processes.
 - Conduct technical analysis of existing processes and new customer's process specifications including chemical processing (conversion coatings, anodizing, etc), painting, heat treatment, and non-destructive testing.
 - Provide training regarding materials and processes to Production, Quality Assurance, and Procurement groups.
 - Write process specifications to ensure compliance with all customer requirements (Boeing, Bombardier).
 - Devise qualification test plans to support customer approval of Arnprior Aerospace processes.

- Investigate and resolve manufacturing issues and provide technical assistance to Operations and Quality Assurance.

Las Cruces, NM

8/07 - 8/11

New Mexico State University
Aerospace Research Engineer

- Graduate Research Assistant
 - Responsible for the management and operation of the water channel facility at NMSU.
 - Used PIV (Particle Image Velocimetry) and multi-axis force measurements as experimental techniques to study flow fields structures and force interactions about immersed bodies.
 - Studied the effects of gust over a robotic humming bird wing in hovering mode.
 - Graduate teaching assistant (GTA) for the undergraduate AE 447 Aerospace Laboratory.
 - Research funded by grants from the US Air Force Office of Scientific Research (AFOSR) and the Army High Performance Computing Research Center (AHPARC).
- Program Manager and Systems Engineer - 2010 DBF AIAA Student Competition
 - Led the student team that participated in the 2010 AIAA Cessna Aircraft Company/Raytheon Missile Systems - Student Design/Build/Fly Competition.
 - Created cost, schedule, and systems engineering management plans.
 - Managed overall technical design.
 - Performed detailed stability analysis.
- Lead Engineer - BODKIN Unmanned Aerial Test Platform Development (Physical Science Lab)
 - Provided PSL with a feasibility study of in-house UAV test platform for 21st Century Aerospace.
 - Performed engineering trade studies of overall system configuration.
 - Designed the propulsion, electrical and communication systems.

8/08 - 1/09

Ethicon Endo Surgeries Inc. (Johnson & Johnson)
Automation & Packaging Department Co-op Engineer

Albuquerque, NM

- LEAN & Six Sigma Productivity Team
 - Installed equipment and trained personnel to successfully implement quality assurance weight scales into the automated production lines.
 - Assisted engineers designing and installing hardware improvements for the automated production lines.
 - Performed and implemented LEAN and Six Sigma activities to improve production and reduce costs.

SKILLS

Automation and Motion Control
MATLAB/Simulink/LabVIEW
Programmable Logic Controllers (PLCs)
Aerial systems design and development
Automobile and motorcycle mechanic

CNC and other machining
SolidWorks, AutoCAD, NX Unigraphics
Signaling and data processing
Composites Materials
RC builder and aircraft pilot student

CONFERENCES

- Scholarship Attendee, *X-Prize Foundation's Executive Summit*, October 2006.
- Scholarship Attendee, *International Symposium for Personal and Commercial Spaceflight*, October 2006.
- Scholarship Attendee, *Monster Diversity Leadership Program*, Summer 2007.
- Volunteer, *X-Prize Foundation's Executive Summit*, October 2007.

- Attendee, *International Symposium for Personal and Commercial Spaceflight*, October 2007.
- Marquez, E. N., "Bio-Degradable Bone Scaffold," *New Mexico Alliance for Minority Participation*, April 10th 2008.
- Marquez, E. N., "Wind tunnel lift measurements," *American Institute of Aeronautics and Astronautics – Southwest Regional Technology Symposium*, April 16th, 2008.
- Marquez, E. N., "Bio-Degradable Bone Scaffold," *Undergraduate Research and Creative Arts Symposium*, April 18th 2008.
- Attendee, *45th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit*, August 2009.
- Forum Presenter. *The Dean's Leadership Forum - NMSU*, 2009.
- Attendee, *International Symposium for Personal and Commercial Spaceflight*, October 2009.
- Presenting on behalf of Evans, Evans, H., Allen, J. J., and Balakumar, B.J., "Optimization Study for Hovering Flapping Flight," *American Physical Society – 62th Annual Meeting of the APS Division of Fluid Dynamics*, Volume 54, Number 19, 2009.
- Marquez, E. N., Evans, H., Alarcon, R., Whitehouse, G., and Balakumar, B.J., "Effect of gust on flow patterns around a robotic hummingbird-wing," *American Physical Society – 63rd Annual Meeting of the APS Division of Fluid Dynamics*, Volume 55, Number 16, 2010.
- Marquez, E. N., Evans, H., Alarcon, R., Whitehouse, G., and Balakumar, B.J., "Effect of gust on flow patterns around a robotic hummingbird wing," *41st AIAA Fluid Dynamics Conference and Exhibit*, 2011.
- Marquez, E. N., Evans, H., and Shu, F., "Effect of gust on flow patterns around a robotic hummingbird wing," *Canadian-American-Mexican Graduate Student Physics Conference - American Physical Society*, P.41, 2011.
- Marquez, E. N., Balakumar, B.J., and Shu, F., "Effect of gust on flow patterns around a robotic hummingbird wing," *American Physical Society – 64th Annual Meeting of the APS Division of Fluid Dynamics*, Volume 56, Number 18, 2011.

REFERENCES

For more details visit my LinkedIn profile at: www.linkedin.com/in/eloyanmarquez

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Lockheed Martin
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Department of Mechanical & Aerospace
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Adrian Delgado

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