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How would you like to donate your time and talent?

Non-profit organizations could be looking for someone like you.

Joining a nonprofit board
 Skills-based volunteering (pro bono consulting)

[Save](#) [Skip](#) Does not apply

Juan Carlos Hernández

Platform Level Systems Engineer at Rockwell Collins
 Merced, California | Aviation & Aerospace

Previous UC Merced, Cessna Aircraft Company/Raytheon Missile Systems Competition (AIAA), NASA - National Aeronautics and Space Administration
 Education University of California, Merced

[View profile as](#) [500+](#) connections

<https://www.linkedin.com/in/juancarlos hernandez8b7> [Contact Info](#)

Add a section to your profile – be discovered for your next career step.

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 Non-profit organizations could be looking for someone like you.

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 Here's another way to show your accomplishments.

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Summary

I am a current Mechanical Engineering undergraduate at the ABET accredited School of Engineering department at the University of California, Merced. My professional goals are to be in the forefront of technological development in the high-tech industry working in fields that combine daring engineering feats, aeronautics design and "smart design" optimization. Currently I am searching...

Add Media: [Document](#) [Photo](#) [Link](#) [Video](#) [Presentation](#)

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Experience

Platform Level Systems Engineer

Rockwell Collins

June 2016 – Present (6 months) | Cedar Rapids, Iowa

[Add Description](#) ?



Add Media: [Document](#) [Photo](#) [Link](#) [Video](#) [Presentation](#)

Instructional Laboratory Assistant



UC Merced

March 2013 – June 2016 (3 years 4 months) | UC Merced School of Engineering

- Design, maintain and print a diverse array of 3D printed objects using machines such as the Mcor IRIS HD, Makerbot 5th Generation Replicator, 2X, Z18, Afinia's and Form Labs

Add Media: [Document](#) [Photo](#) [Link](#) [Video](#) [Presentation](#)

Design Build Fly Computer Aided Design Lead

Cessna Aircraft Company/Raytheon Missile Systems Competition (AIAA)

October 2015 – April 2016 (7 months) | Wichita, Kansas Area

- Designed, fabricated, and demonstrated the flight capabilities of an unmanned, electric powered, radio controlled aircraft which can best meet the specified mission profile of this years competition

DBF w/ the PM.

Chief Financial Officer/Test Engineer

NASA - National Aeronautics and Space Administration

November 2015 – November 2015 (1 month) | Baltimore, Maryland Area

[Add Description](#) ?



Test Engineer

Sandia National Laboratories

October 2015 – October 2015 (1 month) | Pasadena, CA

[Add Description](#) ?



Add Media: [Document](#) [Photo](#) [Link](#) [Video](#) [Presentation](#)



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Add new skills with these courses



Mike Hathorn: 3D Printing in the Classroom

Viewers: 7,817



Using Office 2013 Themes and Templates for...

Viewers: 8,637



Migrating from Office 2007 to Office 2016

Viewers: 2,570

[View more courses ▶](#)

Stress and Strain Researcher

University of California

August 2014 – May 2015 (10 months) | 5200 North Lake Road, Merced CA 95343

[Add Description](#) 
[Add Media:](#)  Document  Photo  Link  Video  Presentation

Heat Transfer Team Lead

UCMERCED

UC Merced

January 2015 – April 2015 (4 months) | UC Merced School of Engineering

- Provided an agenda and set of objectives for the research group and regularly met with the community partner and advising professor to discuss our updates on the project, our short/long term goals, and what to expect in our weekly meetings with the whole research group.

Engineering Service Learning provides stu...

Design Build Fly Computer Aided Design Lead

Cessna Aircraft Company/Raytheon Missile Systems Competition

November 2014 – February 2015 (4 months) | Tucson, Arizona Area

- Designed, fabricated, and demonstrated the flight capabilities of an unmanned, electric powered, radio controlled aircraft which can best meet the specified mission profile of this years competition

▶ 2 honors and awards

▼ 1 recommendation

**Robert Miles**

Vehicle Test Engineer at Delphi Automotive

Juan Carlos Hernandez is a detail oriented person who goes above and beyond when it comes to working within a team. His passion to work with Design Build Fly at UC Merced showed hard work and dedication by meeting deadlines and communicating with... [View](#)

Kupplung at it's finest

Image Processing Intern

Mechatronics, Embedded System and Automation Laboratory

January 2014 – January 2015 (1 year 1 month) | 4225 N. Hospital Rd., Atwater, CA 95301, USA

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- Develop Unmanned Ariel Systems for primarily civil remote sensing applications that can help in a variety of fields, including precision agriculture, water management and environmental development
- Work with UAV's and Quad rotors on obtaining images of plantation fields using remote sensing which are processed using Rawterapee, then stitched using Agisoft Photoscan to create a 3D map which is used to locate water stress of the plants using infrared and a thermal camera

▼ 1 recommendation



Manuel Zaragoza

Designer at Zaragoza Designer Enterprise

Juan Carlos Hernandez is a dedicated, ambitious, result driven leader and thoughtful individual. If you ever need someone to deliver under pressure, no slip-ups, just results, Juan Carlos Hernandez is your man! He is great in dealing with difficult... [View](#)

150603 Agisoft PhotoScan Presenation

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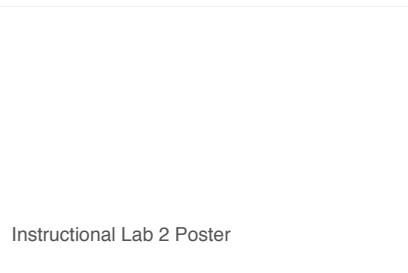
Heat Transfer Deputy Leader

UC MERCED

UC Merced

August 2014 – December 2014 (5 months) | UC Merced School of Engineering

[Add Description](#) ?



Instructional Lab 2 Poster

Dormitory Maintenance Student Worker



Allen & O'Hara Development

March 2014 – July 2014 (5 months) | 305 Campus View Dr, San Marcos, CA 92078

[Add Description](#) ?

[Add Media:](#) Document Photo Link Video Presentation

Dormitory Maintenance Student Worker



Allen & O'Hara Development

June 2013 – August 2013 (3 months) | 305 Campus View Dr, San Marcos, CA 92078

- Painted 50+ apartments over the course of the summer



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AVID President

San Diego Unified School District

August 2007 – June 2013 (5 years 11 months) | San Marcos, CA

- Increased the club's budget by 300%
- Received the AVID Student of the Year Award
- Created a mentorship program between upperclassman and underclassman



AVID | Proven Achievement. Lifelong Adva...

[Add position](#)

Organizations

The American Institute of Aeronautics and Astronautics (AIAA)

President

April 2015 – June 2016

- Organizing, planning and spearheading events for our chapter while expanding into our local community

Aerospace Association of UC Merced (AIAA)

Finance Chair

August 2014 – April 2015

- Participated and aided the treasurer with monetary functions related to the organization

The Society of Hispanic Professional Engineers - Ingenieros Unidos Chapter

Treasurer

May 2013 – April 2014

- Keep track of club dues and assist the ICC board member with school funding
- Lead the finance committee geared towards providing funding for all activities within the club
- Planning the financial logistics of RLDC (Regional Leadership Development Conference) that the University of California, Merced will be hold this year

The Society of Hispanic Professional Engineers - Ingenieros Unidos Chapter

Outreach Chair

August 2013 – May 2014

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- Successfully managed several conference geared towards STEM awareness such as the "Expanding Your Horizons Conference"
- Promoted the advancement of female engineers by specifically focusing workshops and conferences for females
- Outreached towards the community of Merced to increase STEM awareness, research and scholarship opportunities

Academy of Model Aeronautics (AMA)

Official Member

Starting May 2015

<http://www.modelaircraft.org>

Vanguard

AIAA President

Starting May 2015

In Vanguard, student leaders are able to be a part of the development process at UC Merced and the School of Engineering. They have: access to academic information and Vanguard resources, exposure to cutting-edge research, involvement in academic projects and outreach initiatives, and potential employment opportunities.

[Add organization](#)

Honors & Awards

Advanced Via Individual Determination Student of the Year Award, Leadership Award

AVID Organization

April 2013

Leadership and accomplishment award offered to the single most influential AVID member on campus

Frances M. Benton Scholarship, Academic Achievement Award

Frances M. Benton Foundation

2014

Two time recipient of this academic achievement award

Jessie Klicka Foundation, Academic Achievement Scholarship

Jessie Klicka Foundation

2013

Two time recipient of this academic achievement scholarship

2015 Spring Semester Flash Talk Competition Winner

Robert Goodman; Lead STEM Career Specialist

April 2015

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Yes

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Collaborative Program of the Year Award

University of California, Merced

April 2015

Presented to The American Institute of Aeronautics and Astronautics (AIAA) in collaboration with the following organizations specifically for our collaboration during engineering week:

Society of Hispanic Professional Engineers (SHPE)
 Society of Women Engineers (SWE)
 National Society of Black Engineers

New Organization of the Year Award

University of California, Merced

April 2014

Awarded to The American Institute of Aeronautics and Astronautics (AIAA) for being the single most new influential and impactfulness organization on campus

Community Outreach Award

University of California, Merced

April 2015

Awarded to the Society of Hispanic of Engineers (SHPE) for our involvement with the community

AP Scholar

CollegeBoard Inc.

March 2012

Granted to students who receive scores of 3 or higher on three or more AP Exams

Renewable Energy Scholarship

University of California, Merced

July 2015

Renewable Energy Scholarship based on my academic performance, financial need and expressed interest in the field of renewable energy

[Add honors & awards](#)

Volunteer

Restoration Hanger Volunteer

Castle Air Force Base

March 2015 – June 2016 (1 year 4 months)

- Restored aircraft such as the B-47, B-17, C-47, B-29, B-52, F-16A and F-4E to their fully functional condition
- Maintain all of the 63 aircraft on site alongside highly experienced air force, navy, and former air force one personnel by conducting paint jobs, body reconstruction, parts machining/swapping etc.
- Clock in at over 75+ hours of working in the air...

Notify your network?

Yes, publish an update to my network about my profile changes.

Yes

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August 2011 – Present (5 years 4 months) | Health

Volunteered in this event that focuses on finding a cure multiple sclerosis.

Innovate to Grow Volunteer

UCMERCED

UC Merced

May 2015 | Education

Two time volunteer in this event that encompasses the following three signature threads:

Innovation Design Clinic (IDC) : graduating engineers work on design projects identified by community partners

Engineering Service Learning (ESL) : cornerstone experience to deliver real-world solutions with non-profit partners

Mobile App Challenge (MAC) : cross-disciplinary teams...

[Add volunteer experience](#)

Notify your network?

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Yes

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Courses

University of California, Merced

- Thermodynamics (ENGR 130)
- Fluid Mechanics (ENGR 120)
- Statics & Dynamics (ENGR 057)
- Computer Aided Engineering (ME 137)
- Introduction to Materials (ENGR 045)
- Circuit Theory (ENGR 065)
- Calculus I,II & III (MATH 022/023)
- Chemistry I & II (008)
- Physics I & II (PHYS 08/09)
- Engineering Computing (ME 021)
- Probability and Statistics (MATH 032)
- MATLAB Programming (MATH 050)
- Numerical Analysis (MATH 131)
- Machine Shop (ME 188)
- Writing for Engineers (WRI 119)
- Strength of Materials (ENGR 151)
- Mechatronics (ME 142)
- Continuum Mechanics (ME 220)

University of California, Los Angeles

- Latin American History

Palomar College

- Cuban and Brazilian Drumming
- Drum/Dance Ensemble
- Spanish

[Add course](#)



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Advanced



English

Full professional proficiency

Spanish

Full professional proficiency

Notify your network?

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[Add language](#)

Skills & Endorsements

Top Skills

41 Leadership



28 Microsoft Word



30 PowerPoint



15 Critical Thinking



18 Time Management



22 Research



26 Microsoft Excel



11 AutoCAD



16 Event Planning



13 Matlab



Juan Carlos also knows about...

8 3D Printing | 13 Mechanical Engineering | 7 Facebook

11 Community Outreach | 6 Heat Transfer | 5 Calculus | 6 Spanish-speaking

6 Team Building | 4 Pianist | 9 Team Leadership | 4 Matlab

5 Team Management | 10 Social Networking | 8 Spanish | 5 Fundraising

1 LabVIEW | 1 SolidWorks | 1 Arduino | 1 AgiSoft PhotoScan

1 Mission Planner | 1 Soldering | 1 RawTherapee | 1 PTC Pro Engineer

1 Microsoft Office | 1 Systems Engineering | 1 Pro Line Fusion

[Add skill](#)

Education

University of California, Merced

Bachelor of Science (B.S.), Mechanical Engineering



2013 – 2018

Activities and Societies:

The American Institute of Aeronautics and Astronautics (AIAA); The Society of Hispanic Professional Engineers (SHPE)



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- 6 organizations
- 4 honors and awards
- 18 courses, including:
- ▼ 1 recommendation



Eduardo Rojas-Flores

Student Receptionist/Assistant at Office of Undergraduate Education at UC Merced

To say Juan is a valuable asset to any team, project, or organization would be an understatement. His involvement and participation in AIAA Design, Build, Fly competition and as current AIAA Chair have been advantages. He brings drastic improvements... [View](#)

UC Merced

Notify your network?

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Yes

Add new skills with these courses



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University of California, Los Angeles

2012 – 2013

[Add Degree](#)

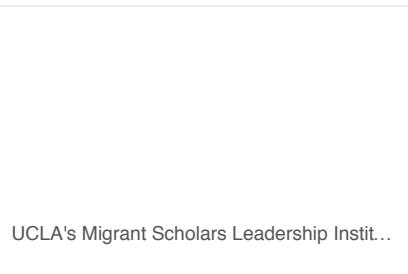
[Add Field of Study](#)

[Add Grade](#)

[Add Activities and Societies](#)

[Add Description](#)

- 1 course



UCLA's Migrant Scholars Leadership Institut...

San Marcos High School

General High School Diploma

2009 – 2013

[Add Field of Study](#)

[Add Grade](#)

[Add Activities and Societies](#)

[Add Description](#)

- 2 honors and awards

Add Media: Document Photo Link Video Presentation



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[Add Degree](#)

- [Add Field of Study](#) ?
- [Add Dates Attended](#) ?
- [Add Grade](#) ?
- [Add Activities and Societies](#) ?
- [Add Description](#) ?

► 3 courses

Add Media: [Document](#) [Photo](#) [Link](#) [Video](#) [Presentation](#)

Add education

Additional Info

Interests

Aerospace, Engineering, Building Cool Things, Playing the Piano, and always learning

Advice for Contacting Juan Carlos

If you would be interested in contacting me please send me an email or a quick phone call to my contact info below and I will answer as soon as possible.

Email: jhernandez98@ucmerced.edu
Phone: 1 (209) 600 1973

Certifications

Fire Safety Laboratory Training Certification

University of California
Starting April 2014

Laboratory Safety Fundamentals Training Certification

University of California
Starting May 2014

Laser Cutters Level I Certification

University of California
Starting March 2015

Compressed Gas Safety Certification

University of California
Starting March 2015

Notify your network?

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Yes

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Recommendations

Design Build Fly Computer Aided Design Lead Cessna Aircraft Company/Raytheon Missile Systems Competition



Robert Miles

Vehicle Test Engineer at Delphi Automotive

“ Juan Carlos Hernandez is a detail oriented person who goes above and beyond when it comes to working within a team. His passion to work with Design Build Fly at UC Merced showed hard work and dedication by meeting deadlines and communicating with leaders within the group. His skills to 3D design and print shows tremendous expertise as he will grow in his Engineering career. ”

March 31, 2015, Robert worked directly with Juan Carlos at Cessna Aircraft Company/Raytheon Missile Systems Competition

Image Processing Intern

Mechatronics, Embedded System and Automation Laboratory



Manuel Zaragoza

Designer at Zaragoza Designer Enterprise

“ Juan Carlos Hernandez is a dedicated, ambitious, result driven leader and thoughtful individual. If you ever need someone to deliver under pressure, no slip-ups, just results, Juan Carlos Hernandez is your man! He is great in dealing with difficult situations and a fantastic problem solver. I recommend him to anyone looking to hire a leader who can make a difference in... [more](#) ”

March 29, 2015, Manuel worked directly with Juan Carlos at Mechatronics, Embedded System and Automation Laboratory

Bachelor of Science (B.S.)

University of California, Merced



Eduardo Rojas-Flores

Student Receptionist/Assistant at Office of Undergraduate Education at UC Merced

“ To say Juan is a valuable asset to any team, project, or organization would be an understatement. His involvement and participation in AIAA Design, Build, Fly competition and as current AIAA Chair have been advantages. He brings drastic improvements and innovative ideas. He showcases his enthusiasm and passion in the DBF project where he went beyond his role to assist the... [more](#) ”

March 16, 2016, Eduardo studied with Juan Carlos at University of California, Merced

[Ask to be recommended](#)

Groups



The American Ins...

15,013 members

Visible ▶



Mechanical Engin...

189,486 members

Visible ▶



UC Merced

1,241 members

Unlisted Group



MESA Labs Mem...

20 members

Visible ▶



The Society of Hi...

11,174 members

Visible ▶



SolidWorks

72,717 members

Hidden ▶



Pianists

21,449 members

Visible ▶



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✓ Following


Bill Gates

Co-chair, Bill &...
✓ Following


Jeff Weiner

CEO at LinkedIn
✓ Following


James Caan CBE

Serial Entrepreneur...
✓ Following


T. Boone Pickens

Founder, Chairman...
✓ Following


Marillyn Hewson

Lockheed Martin,...
✓ Following


Jigar Shah

Co-Founder at...
✓ Following


Douglas Rushkoff

Author, Throwing...
✓ Following

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1,923,650 followers
✓ Following


Pulse

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Tesla

Automotive
✓ Following

Boeing

Aviation & Aerospace
✓ Following

GE Power

Oil & Energy
✓ Following

Amazon Lab126

Consumer Electronics
✓ Following


University of California

Higher Education
✓ Following

Rockwell Collins

Aviation & Aerospace
✓ Following

Society of Hispanic ...

Nonprofit Organization
Management
✓ Following

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Schools


University of California...

Merced, California Area
✓ Following

Palomar College

Greater San Diego Area
✓ Following

Massachusetts Instit...

Greater Boston Area
✓ Following

University of California...

Greater Los Angeles Area
✓ Following

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