

# PAMELA MARTINEZ VILLARREAL

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## EDUCATION

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M.S.E in **Industrial & Operations Engineering** Candidate Expected: Dec. 2015  
Concentration: **Healthcare Engineering and Patient Safety ("HEPS")**  
University of Michigan, Ann Arbor (U of M)

Bachelor of Science in **Industrial Engineering – Magna Cum Laude** May 2014  
The University of Texas at El Paso (UTEP) **GPA – 3.87/4.0**

## HONORS AND ACTIVITIES

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U of M College of Engineering Master's Fellowship Award Sept. 2014 - April 2015  
UTEP IMSE Outstanding Senior Award May 2014  
Who's Who Among Students in American Universities and Colleges Award May 2014  
Full scholarship from UTEP Athletics Jan. 2010 - May 2014  
UTEP Honors Program – University Honors Degree Completion Jan. 2010 - May 2014  
President: Institute of Industrial Engineers (IIE) and Alpha Phi Mu April 2013 - May 2014  
Member: TBP, MAES/SHPE, SWE, NSCS, IIE  
Certified Six Sigma Green Belt through the Institute of Industrial Engineers  
Certification of completion: Lean Manufacturing Overview by TMAC

## EXPERIENCE

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**Graduate Student Research Assistant** Sept. 2014 - Present  
University of Michigan IOE Department Ann Arbor, MI

- Assist in projects developed by the Center of Healthcare Engineering and Patient Safety

**Video & Graphic Designer** Jan. 2010 - May 2014  
UTEP Athletics El Paso, TX

- Developed and created graphic design for posters, flyers and other publicity.
- Filmed and produced videos for women sports home tournaments.
- Collaborated in the organization and technical support of C-USA Tournaments at UTEP.

**Undergraduate Research Assistant** Jan. 2013 – May 2014  
UTEP Department of Industrial Engineering El Paso, TX

- Developed course materials and assisted lead professor in conducting a Green Energy Manufacturing class.
- Designed project webpages and collaborated with the planning of departmental events.

**Summer Research Opportunity Program (SROP)** May-July / 2013  
University of Michigan IOE Department Ann Arbor, MI

- Developed a user-friendly interface using Excel VBA that visualizes test results of glaucoma patients in order to improve medical decision-making.

**Undergraduate Research Assistant** May-July / 2011  
UTEP Department of Industrial Engineering El Paso, TX

- Investigated about Bio-medical Part Inspection using Data Mining and E-Quality Control.
- Operated YAMAHA Robotic system and machine vision systems.
- Attended leadership skills development workshops.

## SKILLS

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- Spanish (Native), English (Proficient), French (Basic)
- Experienced in Microsoft Office, Excel (VBA), Adobe Suite CS6
- Familiar with BlocPlan, Spiral, MATLAB, Minitab, Arena, AutoCAD, Unigraphics NX6, FactoryCAD, LayOPT, GaBi Software, AMPL, R.