

# VANESSA RODRIGUEZ

## OBJECTIVE

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To be part of a collaborative design environment, combining technology and creativity in achieving a project's success

## EDUCATION

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THE PENNSYLVANIA STATE UNIVERSITY – UNIVERSITY PARK, PA

- Bachelors and Masters of Architectural Engineering (B.A.E./M.A.E.), Minor of Arch., May 2010
- GPA 3.40/4.00

## RELEVANT COURSES

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Advanced Steel and Concrete, Computer Modeling, Steel Connections, Wood, Masonry and Earthquake Resistant Design, Building Enclosures, Pre-stressed Concrete

## EXPERIENCE

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MIGRANT PROGRAM– HAZLETON, PENNSYLVANIA

SUMMER 2009

Assistant Teacher and Mentor

- Conducted classes in Mathematics; including geometry, algebra, and calculus
- Prepared material to be used in class, such as exams, pre-tests, and notes
- Mentored high school students in furthering their education
- Volunteered at CPHA citizenship classes and worked with the PASS program.

LA MAGIA INSTITUTE – ROME, ITALY

SUMMER 2008

Design of a Modern Building Respectful to the Historical Fabric

- Focused on hybrid structures and the transition between materials
- Designed structural columns which merged into a petrified cornice
- Detailed connection between concrete columns, steel beam, and glass curtain wall
- Optimized structure by taking advantage of the larger spans of modern materials

MILWAUKEE SCHOOL OF ENGINEERING – MIWAUKEE, WI

SUMMER 2007

Restoration of Historical Buildings Using Weather Simulation and Rapid Prototyping

- Simulated weathered stone using fluid flow equations and Magics™ software
- Reconstructed architectural ornaments using Rapid Prototyping
- Presented at the National Conference for Undergraduate Research (2008)
- Undergraduate winner of the College of Engineering Research Symposium (2008)

## SKILLS

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Freeform - AutoCAD - STAAD - SAP - RAM - Microsoft Office - RP /Z-Print  
Solidworks - Dreamweaver - Magics/Geomagics - Revit Systems - Spanish Proficient

## ACTIVITIES

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SHPE - Watercolor Painting - Brazilian Jiu-Jitsu – SSAE Mentor

## REFERENCES

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Available Upon Request