

# ACADEMIC VITA

SIKANDAR PORTER-GILL

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## EDUCATION

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**The Pennsylvania State University**

*Integrated Bachelor and Master of Architectural Engineering*  
Structural Option | Five-year professional degree | ABET accredited  
EIT Certified upon graduation | Schreyer Honors College

**University Park, PA**

*Graduation, May 2014*

**The Tsinghua University**

*Summer School for International Construction*

**Beijing, China**

*Summer 2012*

**The University of Hong Kong**

*The Department of Real Estate and Construction*

**Pokfulam, Hong Kong**

*Summer 2012*

## WORK EXPERIENCE

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**Penn State University** | Research and Education Institute

*Indeterminate Analysis and Computer Modeling Teaching Assistant*

**University Park, PA**

August 2013 – present

- Provide feedback to students by evaluating homework and exams

**Holbert Apple Associates, Inc.** | Structural Engineer Consultants

*Engineering Intern*

**Washington D.C. Area**

May 2013 – August 2013

- Performed analysis on existing framing and design of new framing, with limited site visits
- Reviewed shop drawings for concrete reinforcing and structural steel
- Prepared construction documents using AutoCAD and Revit
- Worked with RAM SBeam, spSlab, PROFIS, Enercalc and Decon STDesign

**Penn State University** | Research and Education Institute

*Undergraduate Researcher | Laboratory Scholar*

**University Park, PA**

January 2010 – May 2013

- Tested Structural Insulated Panels for intended wide spread use
- Examined formaldehyde reduction in buildings using gypsum dry board
- Engineered working models in RISA, ETABS and SAP 2000
- Managed ordering of project
- Conceptualized fuel cell productivity using printed biofilms on the electrode and examined immobilization of biofilms using latex substance

**Sustainable Design Group** | Design and Construction Firm

*Intern*

**Gaithersburg, MD**

May 2011 – August 2011

- Prepared construction documents for residential and business projects
- Evaluated sustainable design research for developing countries
- Oversaw permitting application for counties in Maryland and Virginia
- Worked with Graphisoft ArchiCAD 13/15, Photoshop CS.5, and Google Sketchup

## PUBLICATIONS

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Wagner, R., Porter-Gill, S. “Immobilization of anode-attached microbes in a microbial fuel cell.”  
AMB Express. 2012.

Porter-Gill, S. “Overview of the Causes and Remediation of Sinkholes.” The American Society  
of Civil Engineers TCFE. 2013.