

# PAVEL LIKHONIN

109 Tamara Circle • Pleasant Gap, PA 16823 • (814) 441-3152 • pavel.likhonin@gmail.com  
<http://www.engr.psu.edu/ae/thesis/portfolios/2010/pvl104/index.html>

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## Education:

### **The Pennsylvania State University, University Park, PA**

*(Graduation - May 2010)*

Department of Architectural Engineering, Mechanical Option

- Integrated Bachelor and Master of Architectural Engineering (ABET accredited)
  - Undergraduate (B.A.E.) GPA: 3.67/4.00      Graduate (M.A.E.) GPA: 3.92/4.00
  - EIT status upon graduation
  - Building Information Modeling (BIM) Studio
  - Graduate Courses: Computational Fluid Dynamics in Buildings, Combined Heat and Power, Central Cooling Systems, Central Heating Systems, HVAC Control Systems, Air Quality in Buildings, Advanced Building Electrical Systems
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## Work Experience:

### **The Pennsylvania State University, Department of AE**

*University Park, PA*

Research Assistant/Teaching Assistant for Advanced HVAC System Design

*02/2009-Present*

- Performed green roof research and data analysis with Dr. Jelena Srebric
- Research on energy consumption vs. building material
- Led a pilot study team for a window to wall ratio energy optimization analysis with Dr. Stephen Treado

### **AECOM Design (HSM|AECOM and DMJM|AECOM)**

*Washington, DC & Arlington, VA*

Mechanical Systems Design Intern

*Summer 2009*

- Assisted engineers and architects on multiple, large scale government projects
- Conducted energy modeling in IES VE and Trane TRACE
- Performed revisions and calculations for LEED certification submissions
- Selected mechanical equipment
- Completed layout, sizing, and drafting of mechanical systems
- Answered requests for information (RFI's)

### **Donohoe Construction Company**

*Washington, DC & McLean, VA*

Project Management Intern

*Summer 2008*

- Completed punch lists and client walkthroughs
- Performed final inspections before client turnover
- Managed multiple teams of foremen

### **College Pro Painters (US) Ltd.**

*State College, PA*

Franchise Manager

*10/2005-10/2006*

- Owned and operated a franchise
  - Responsible for marketing, sales, customer relations, and production management
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## Skills:

- Graphic: AutoCAD, Autodesk Revit MEP and Architecture 2009, Google SketchUp, Adobe Photoshop & Illustrator CS4, Macromedia Dreamweaver
  - Engineering: Engineering Equation Solver (EES), IES VE, Trane TRACE, and Phoenix CFD
  - Other: Microsoft Office Suite, Microsoft Project
  - Fluent in Russian, French - in progress
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## Organizations:

- Treasurer of ASHRAE-Penn State Student Chapter
  - Secretary of Phi Alpha Epsilon, The Architectural Engineering Honors Society
  - Phi Eta Sigma Honors Society
  - Student Society of Architectural Engineers
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## Awards and Interests:

- International "ASHRAE Student Design Competition 2009" - Awarded 2<sup>nd</sup> Place
    - Integrated Sustainable Building Design
  - BR&A Consulting Engineers – Prof. Melvin Memorial Scholarship
  - Penn State Board of Trustees Award
  - Automotive restoration and performance enhancement
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## Specific Career Interest:

Develop and integrate design tools, processes, and technologies that enable realization of Near Zero Energy Buildings (Sustainable), i.e. buildings that result in near zero fossil fuel energy utilization for operation.