

# Jason Tarlecki

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802.522.2153

**OBJECTIVE:** Seeking a position with a progressive company where I can contribute my skill as a builder and craftsman alongside my engineering background.

## WORK EXPERIENCE

### **FREELANCE DESIGNER/BUILDER** (2005 – present)

Completed many residential new construction and renovation projects, focusing on energy efficiency, super-insulation, local materials, excellent indoor air quality, and both passive and active solar design. Responsibilities included project management, general contracting, shop drawings, engineering and sizing timbers, timberframing, natural building and rough to finish carpentry. **Project pictures available upon request.**

### **TREEHOUSES AND SPECIALIZED WOODWORKING** (2006 – present)

Provided consulting and woodworking for [Forever Young Treehouses](#) in Burlington, VT. Duties included project management, providing CAD drawings, timberframing, French scribing, custom metal work, logging and chainsaw work, and rough to finish carpentry. Was an integral part of a small team that completed numerous multimillion dollar projects, both public and private, on budget and on time. **Project pictures available upon request.**

### **RESEARCH AND TEACHING ASSISTANT** (2002 – 2005)

Worked in Mechanical Engineering Department at the University of Pennsylvania. Research investigated the feasibility of electrical power generation in Low Earth Orbit, with heavy focus on thermodynamics, heat transfer and fluid mechanics. Taught undergraduate and graduate level courses in strength of materials, heat transfer, and aerodynamics.

### **ARCHITECTURE AND ENGINEERING** (1998 – 2001)

Worked for [Kling Stubbins](#), [Ewing Cole](#), and the [City of Philadelphia – Department of Streets](#) providing mechanical and structural engineering. Duties included load calculations, HVAC analysis, equipment and beam sizing, CAD drawings, surveying, and piping schematics.

## SELECTED ACCOMPLISHMENTS

Jason Tarlecki, Noam Lior, Na Zhang, "Analysis of thermal cycles and working fluids for power generation in space", *Energy Conversion and Management*, Volume 48, Issue 11, November 2007, Pages 2864-2878.

Jason Tarlecki, Noam Lior, Na Zhang, "Evaluation of some thermal power cycles for use in space", *Proc. ECOS 2006, 19th Conference on Efficiency, Costs, Optimization, Simulation and Environmental Aspects of Energy Systems*, Crete, Greece, 2006.

Passed FE/EIT Certification, 2000.

## EDUCATION

**UNIVERSITY OF PENNSYLVANIA, Philadelphia, PA**, Master of Science in Engineering, 2005  
Thesis topic: Power Generation in Space for Terrestrial Use  
Honors: Ashton Fellowship

**DREXEL UNIVERSITY, Philadelphia, PA**, Bachelor of Science in Mechanical Engineering, 2001  
Senior Design Project: Design/Build of chassis for the Drexel Formula SAE race car  
Honors: A.J. Drexel, Mildred Huber, and Herman Schaevitz Memorial Scholarships

### *Operating Systems*

Windows Vista/XP  
OS X  
UNIX  
MS-DOS

### *Software*

Drafting/Modeling:  
AutoCAD 2007  
SketchUp 7.0  
Microstation SE, V8  
Pro/Engineer 2001i

### Numerical Computing:

MATLAB  
FEMLAB  
Maple

### Languages:

HTML  
C, C++  
Fortran

### Other:

Microsoft Excel  
Word  
PowerPoint  
Adobe Creative Suite  
FTP

### *Portfolio*

[www.jaytarlecki.com](http://www.jaytarlecki.com)

### *References*

Available on request