

**Damon Allen, Ph.D.**

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## **Education**

PhD in Civil Engineering, 4.0 GPA, University of Florida, December 2008 \*

Master's degree in Civil Engineering, 4.0 GPA, University of Florida, May 2006 \*

Bachelor's degree in Civil Engineering, 4.0 GPA, University of Florida, December 2003

\* Specialized in Structural Engineering.

## **Experience**

### ***Teaching Experience***

Adjunct Professor, University of Florida College of Building Construction, Fall 2013 – Present,

Both in classroom and online versions of Temporary Structures

Adjunct Professor, University of Florida, Civil Engineering. Fall 2013

Timber Design

Adjunct Professor, University of Florida College of Building Construction, Spring 2013

Structures

Adjunct Professor, Santa Fe College, Fall 2010 – Fall 2012

Physics with Algebra, Physics with Calculus,

Post Doctoral Teaching Assistant at UF Civil Engineering Department, Summer 2009 - Spring 2010

Adjunct Professor, University of Florida, Civil Engineering. Spring 2009

Instrumentation and Experimentation

### ***Software Development***

IPython presentations for online Temporary Structures course ([example presentation](#)) for UF, 2014-Present

LabVIEW software automating infrared (IR) photodissociation spectroscopy equipment for UF, 2010-Present

IPython [Electron Orbital Visualization](#) educational software for UF, Fall 2013

Python software to manage membership records for Pleasant Street Historic Society Winter 2012

Replacement software for Ultrafast Spectroscopy experimentation for UF, 2011 - 2012

Arduino micro-controller software for controlling stepper motors and collecting data from within LabVIEW

LabVIEW software to control test equipment for FDOT, 2004-2009.

### ***Research Assistant - University of Florida – 2004-2009***

Conducted research on neoprene bridge bearing pads and the effect that loading rate has on stiffness

Designed and assembled testing apparatus and wrote the software to run the tests and collect data

Investigated fiber reinforced concrete as a replacement for wire mesh in concrete wall systems for Mercedes Homes

Troubleshooting of software and hardware

## **Damon Allen, Ph.D.**

### **Construction**

Union carpenter 1992-2001

- Crystal River Power Plant cooling towers expansion construction
- Tiger Bay Power Plant initial construction
- Deerhaven Power Plant initial shutdown
- Other industrial, commercial, and residential construction

Part-time carpenter 2001 – Present

### **Skills**

#### **Engineering**

Studies included surveying, construction methods and management, timber, structural steel, concrete, masonry and bridge design.

Passed Fundamentals of Engineering Exam 2003

#### **Experiential**

Worked in Bolivia as on site Professional Mentor for UF Engineers Without Borders team.

Developed lecture presentation material in the IPython environment ([example](#))

Developed research skills while writing software for tasks ranging from machine learning to GUI design and creation.

Developed planning skills from construction work, software development, research, and lesson preparation

Developed written and verbal communication skills while teaching, reporting on research, generating software requirements and documentation.

Developed team skills in situations ranging from construction projects, to working closely with multiple researchers to coordinate projects and develop a complicated software package in a quick and efficient manner.

Learned to read and interpret design drawings while working construction

#### **Computer**

Operating Systems:	Linux (Ubuntu 6.10 – 14.04) Windows (DOS, XP, Vista, Windows 7)
Microsoft Office:	Excel, Power Point, and Word
LibreOffice/OpenOffice:	Calc, Impress, and Writer
Engineering Software:	Adina, AutoCAD, MathCAD, MatLab, Primavera, Visual Analysis
Languages:	C++, IPython, Pascal, Python, Turbo Pascal, Visual Basic, Visual C

First received LabVIEW Associate Developer Certification in October 2009

#### **Honors/Awards**

Phi Kappa Phi honor society,

Tau Beta Pi honor society,

Golden Key honor society,

Chi Epsilon honor society

## **Damon Allen, Ph.D.**

Florida Carpenter Apprentice of the Year

### **Publications**

#### **Report**

Stiffness Evaluation of Neoprene Bearing Pads Under Long-Term Loads (FDOT\_BD545\_39\_rpt)

#### **Presentation**

“Shear Stiffness of Neoprene Bearing Pads Under Long-Term Loads” at the Transportation Research Board's Annual Meeting, 2010, Washington DC

#### **Article**

“Shear Stiffness of Neoprene Bearing Pads Under Long-Term Loads” Transportation Research Record:  
*Journal of the Transportation Research Board*, Dec. 2010, Volume 2172

### **Search Keywords**

Arduino, AutoCAD, Automation, Carpenter, Carpentry, Civil, Concrete, Construction, Doctor, Dr, Engineer, Excel, IPython, LabVIEW, Lecture, LibreOffice, Linux, Masonry, MathCAD, OpenOffice, Ph.D., PhD, Physics, Power Point, Published, Research, Software, Steel, Structural, Teach, Timber, Ubuntu, Word