

# ETHAN THOMAS UONG

## Professional Summary

An analytical software engineer who can bring a diverse set of skills and creative drive to software application development. Enthusiastic and articulated team player/leader dedicated to efficiently solve complex engineering problems. A passionate teacher who is committed to providing a supportive and engaging learning environment.

## Experience

**Raytheon** Fort Wayne, IN  
*Software Engineer II* June 2018 – Present

- Key member of a command and control interface using Java technology and framework such as OSGi specifications and Gradle build automation.
- Identify production and non-production application issues and transform requirements into stipulations.

**Michael Baker International** Moon Township, PA  
*Civil Associate II / Software Developer* June 2014 – April 2018

- Responsible for generating algorithms in C++/C# for AASHTOWARE Bridge Design and Bridge Rating (BrDR) software in .NET framework.
- Primary developer for an in-house project management tool that utilizes MVVM pattern and Entity framework.
- Led and supervised a user interface team of 10 members.
- Designed graphical user interfaces using WPF and XAML in accordance with Microsoft's guidelines.
- Wrote programs for bridge design and evaluation in LRFD, ASR, LFR and LRFR specifications.
- Populated engineering reports in XML and XSLT languages.
- Supported and updated software's website in SharePoint.
- Conducted and approved code reviews on front end related development.
- Designed and maintained model domains for data access.

**University of Pittsburgh** Pittsburgh, PA  
**Robert Morris University** Moon Township, PA  
*Adjunct Math Instructor* June 2015 – May 2017


- Taught and developed subject curriculum.
- Prepared and provided students with course outlines and syllabus. Assessed student performance and maintained grade records.
- Created an effective learning environment through the use of a variety of custom instructional methods.
- Prepared lesson plans and covered conceptual topics that meet the department's requirements.
- Delivered lectures to undergraduate students on various subjects such as applied calculus, linear algebra, and differential equations.
- Maintain regularly scheduled office hours to advise and assist students.


## Education


**Master of Science in Computational Mechanics** May 2014  
*Carnegie Mellon University*

**Bachelor of Science in Structural Engineering** June 2011  
**Minor in Mathematics**  
*University of California, San Diego*

## Personal Information

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## Technical Skills

### Languages

C/C++/C#  
Java  
Python  
MATLAB  
HTML/CSS  
JavaScript  
XML/XSL

### Technologies

.NET Framework  
Java Swing  
WPF  
JQuery  
Angular

### Software

Visual Studio IDE  
Eclipse IDE  
SQL Server  
Photoshop  
Team Foundation Server  
Jazz Source Control

## Additional Information

### Personal Website

<http://etuong.com>

- Self-taught web development and coded a personal website from scratch.
- Written in Angular 6 and Bootstrap 4.