Daniel E. Krutz

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134 Lomb Memorial Drive| GOL-1547 | Rochester, NY, USA 14623-5608

RESEARCH INTERESTS

Software Engineering Education, Clone detection, Crash Analysis, Software Testing, Software Security.

EDUCATION

**Ph.D. in Computer Science** *9/2007 – 2/2013*

Nova Southeastern University | Ft. Lauderdale, FL

Dissertation: Code Clone Discovery Based on Concolic Analysis.

Advisor: Frank Mitropoulos

**M.S. in Software Design and Management** *8/2005-8/2007*

Rochester Institute of Technology | Rochester, NY

**B.S. in Computer Science, B.S. in History** *9/2000-5/2004*

St John Fisher College | Rochester, NY

ABBREVIATED PUBLICATION LIST

Journal & Conference Papers

[1] **Daniel Krutz** & Emad Shihab

“CCCD: Concolic Code Clone Detection”, Working Conference on Reverse Engineering (WCRE), Fall 2013

[2] **Daniel Krutz** & Mike Lutz

“Bug of the Day: Reinforcing the Importance of Software Testing”, Frontiers in Education Conference (FIE), Fall 2013

[3] **Daniel Krutz** & Jim Vallino

“Moles in Freshman Seminar Team Building”, Frontiers in Education Conference (FIE), Fall 2013

[4] **Daniel Krutz** & Andrew Meneely

“WIP: Teaching Web Engineering using a project component: A case study”, Frontiers in Education Conference (FIE), Fall 2013

[5] **Daniel Krutz**

“Code Clone Discovery Based on Concolic Analysis.” Dissertation completed 2/2013.

Professional Activities

**Journal/Conference Reviewer**

(ASEE) American Society for Engineering Education. 2011-2013

(FIE) Frontiers in Education. 2013

**Workshops Attended & Conference Service**

Teaching with Software Life-Cycle Case Study, Embry-Riddle University 6/2011

Coco Camp Pro 2012, Cupertino California.

DevCon, Kansas City, Missouri. June 2013

Session Chair 2013 - Frontiers in Education (FIE)

**University Service**

Coordinator for numerous concurrent sections of Introduction to Software Course (2010-present)

Undergraduate curriculum committee, 2012-Present

Semester Conversion committee (2012 - 2013).

INDUSTRY EXPERIENCE

**Technology Consultant** *8/2009 - 8/2010*

Mindex Technologies | Rochester, NY. Provided technology support to Xerox on various marketing projects. Led small teams and worked directly with internal and external customers to formulate project solutions.

**Sr. Software Engineer** *2/2009-8/2009*

5Linx Enterprises | Rochester, NY.| Developed web-based solutions for internal and external projects. Primarily worked on upgrading web application for the order process.

**R&D Software Developer** *5/2004-1/2009*

Xerox Corporation | Webster, NY. Interacted with internal customers to formulate solutions on a wide range of problems. This included manufacturing processes, enhancing data storage and collection processes.

CERTIFICATIONS

Design for Lean Six Sigma (DfLSS) Green Belt

Scrum Master for Agile Software Development