MIHAI CODOBAN

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INTERESTS

Design and build software that augments people's lives: just like hand tools enhance and extend what we can do with our hands, software should enhance and extend what we can do with our minds. More specifically, design and build tools that enhance the way developers write software. This broad interest spans topics such as how developers change and understand software, reverse engineer design, assess change impact, build mental models, etc.

INDUSTRY EXPERIENCE

11/11-6/12   **LN-Software**, Software Engineer   **Timisoara, Romania**
Contributed to the design, implementation, and testing of a formal specification modeling workbench built in Eclipse RCP.

RESEARCH EXPERIENCE

in progress   **Graduate Research Assistant**   **Oregon State University**
Used qualitative methods to study the problems developers face when examining software history. Implemented Eclipse and IntelliJ plugins to record and replay developers' fine grained IDE interactions.

08/12-8/13   **Graduate Research Assistant**   **University of Illinois at Urbana-Champaign**
Empirical study on the differences between centralized and distributed software repository usage. Implemented a tool pipeline to traverse and analyze software repositories.

05/11-08/11   **Undergraduate Research Intern**   **University of Illinois at Urbana-Champaign**
Developed a refactoring tool to update the clients of a class to use an immutable version of that class.

EDUCATION

in progress   **Oregon State University**   **Corvallis, OR**
Masters in Computer Science (expected 09/15/15)
Course focus: Human aspects of software development
Thesis: A Comparative Study on How SVN and Git Affect Software Changes

08/12-08/13   **University of Illinois at Urbana-Champaign**   **Urbana, IL**
Ph.D. in Computer Science (transferred to Oregon State University)
Course focus: software design, HCI, and programming language semantics

07/07-07/11   **"Politehnica" University of Timisoara**   **Timisoara, Romania**
B.S. in Computer and Information Technology
Course focus: Software Engineering track (courses in software design, architecture, quality, and evolution)
Thesis: On the correlation between software design flaws, bugs, and defects

TEACHING EXPERIENCE

Teaching Assistant

spring 2013	Software Engineering II (CS 428)	**University of Illinois at Urbana-Champaign**
fall 2011	Programming Languages	**"Politehnica" University of Timisoara**

PUBLICATIONS

ICSME 15   **Software History Under the Lens: A Study on Why and How Developers Examine It**
Mihai Codoban, Sruti Srinivasa Ragavan, Danny Dig, Brian Bailey

ICSE 14   **How Do Centralized and Distributed Version Control Systems Impact Software Changes?**
Caius Brindescu, **Mihai Codoban**, Sergii Shmarkatiuk, Danny Dig

ICSE 14   **Mining Fine-Grained Code Changes to Detect Unknown Change Patterns**
Stas Negara, **Mihai Codoban**, Danny Dig, Ralph E. Johnson

WCRE 11   **iProblems - an integrated instrument for reporting design flaws, vulnerabilities and defects**
Mihai Codoban, Radu Marinescu, Cristina Marinescu