Kevin Lubick

Email:	kjlubick@ncsu.edu
Website:	kjlubick.github.io
GitHub:	github.com/kjlubick
Phone:	(608) 322-6601

Education

Ph.D. (2013-present): *North Carolina State University*, Raleigh, NC 4.00/4.00 GPA

Advised by Dr Emerson Murphy-Hill. Research interests are in using AI techniques to aid Software Engineers. Some examples include automatically recommending tools and smarter static analysis.

B.A. (2010-2013): *Carthage College*, Kenosha, WI 3.93/4.00 GPA

Majored in Computer Science with minors in Physics, Math and Spanish.

Work Experience

Graduate Research Assistant – NCSU 9/2013-Present

Worked to design and test a social screencasting system, specifically the implications of intra-co-worker knowledge sharing.

Undergraduate Research Assistant – Carthage College 6/2012-12/2012

Developed Storyteller, a granular version control system. Project used Java and databases extensively. Presented this work at SPLASHcon 2012.

Math/Computer Science Fellow – Carthage College 9/2011-5/2013

Tutored students in introductory math and computer science courses.

Java Intern – TDS Telecom 5/2011-9/2011

Was involved in many different aspects of creating a new customer interface that allowed customers to modify their telephone, data and satellite plans via the internet.

iPhone Application Developer – Innocorp LTD 6/2010-9/2010

Developed a proprietary app to test for the amount of impairment in a person's mental faculties based on the amount of alcohol consumed.

Publications

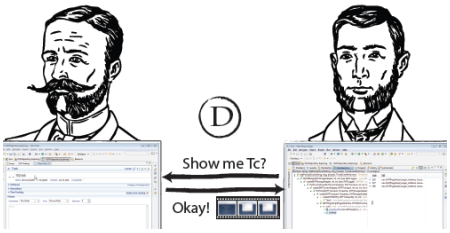
How Developers Visualize Compiler Messages: A Foundational Approach to Notification Construction Titus Barik, Kevin Lubick, Samuel Christie, Emerson Murphy-Hill. 2nd IEEE Working Conference on Software Visualization, 2014

Reduced Gravity De-gassing of Perfluorohexane Coolant Using a Radial Membrane Contactor (Poster) Danielle Weiland, Eli Favela, Amelia Gear, Kevin Lubick, Steven Mathe, John Robinson, Seth Schofield, Kevin Crosby, Nancy Hall, ASGSR, 2013

Modal Evaluation of Fluid Volume in Spacecraft Propellant Tanks (Presentation) Steven Mathe, KelliAnn Anderson, Amber Bakkum, Kevin Lubick, John Robinson, Danielle Weiland, Rudy Werlink, Kevin M. Crosby, Proceedings of the Wisconsin Space Grant, 2012

Selected Projects

Social Screencasting



This project aims to automatically generate video screencasts from normal computer-based workflows. We think that if information workers have access to their coworker's screencasts, they will learn about and learn to use new tools. We will be recommend screencasts and tools, further improving productivity. http://goo.gl/2SGJJC

Storyteller

Modern version control systems (VCS) keep coarse-grain snapshots as the history of a project. Looking at these snapshots, it can be hard infer design decisions or otherwise learn how expert developers work. Storyteller is a fine-grain VCS that makes video-like playbacks from data collected via an Eclipse Plugin. These playbacks can be annotated to preserve transient design decisions. http://goo.gl/Stvek9

FindBugs (fb-contrib)

FindBugs is a Java static analysis tool used to pre-emptively find questionable code and recommend solutions. I contribute new detection patterns, improved notification messages and Eclipse quickfixes to a third-party FindBugs plugin *fb-contrib*. http://goo.gl/SnVTr4

Zero-g Fuel Gauge

Measuring how much fluid is in a tank while in space is hard, because the fluid sloshes around and there is no "up" or "down". When I was an undergrad, I worked as a part of the Carthage Microgravity team to solve this problem for NASA. One of the challenges I faced was designing a user interface that could be used to easily collect data in zero-g. http://goo.gl/RVfPBK

Technical Skills

Languages

Java, C++, LabView, HTML/CSS, JavaScript

IDEs/Tools

Eclipse, Visual Studio, Linux, Windows, AngularJS, jQuery, Apache Ant