

## Albert Huang Rethink Robotics

### "Baxter: A Collaborative Industrial Robot"



**Wednesday, November 6, 2013**  
**12:00 – 1:30pm**  
**Barus and Holley Room 190**

Traditional industrial robots are incapable of sensing and reacting to their surroundings or nearby obstacles, and for safety reasons are typically caged off and isolated from human contact. In this talk, I will describe Baxter, a low-cost collaborative industrial robot designed specifically for close interaction with human operators. Created by Rethink Robotics, Baxter is at the forefront of a new type of industrial robot that can accomplish tasks in collaboration and close proximity with humans. The talk will cover topics such as the hardware and software development of Baxter, and design principles related to safety and human interaction.

**Albert Huang** received an ScB/AB in Computer Science and Philosophy from Brown University in 2003, and a PhD in Electrical Engineering and Computer Science from MIT in 2010. Albert's professional and research interests include algorithms for autonomous and collaborative robots. At MIT, he worked on a number of autonomous land, aerial, and underwater vehicles, including a self-driving Land Rover LR3 and a 6,000 lb autonomous forklift. Albert currently leads the cognition team at Rethink Robotics, which is responsible for the perception and decision making algorithms for the Baxter collaborative robot.

This presentation is part of the HCRI's Multidisciplinary Speaker Series that showcases diverse and groundbreaking research undertaken by leaders in science, technology, design, and impact of robotics on society.