Christopher Munroe

Computer Science Undergraduate
University of Massachusetts Lowell

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Employment History

Undergraduate Researcher, Robotics Lab UMass Lowell   **Fall 2015 - Present**

Currently researching applications of augmented reality in physical therapy using the Sony SmartEyeglass and ODG's R-6 glasses. The glass' applications are written in Java along with the Android SDK and rosjava.

REU Intern, Robotics Lab UMass Lowell   **Summer 2015**

Researched human-robot interaction (HRI) with ROS on the Baxter robot. Programmed the robot to retrieve an object autonomously. Challenged by the unreliable nature of face and object detection algorithms in uncontrolled environments. Analyzed image data and point clouds with the OpenCV library and the Point Cloud Library (PCL) in C++.

(Poster describing our research: http://cmunroe.com/Baxter_Poster.pdf)

SI, Middlesex Community College   **Spring 2015 – Summer 2015**

Student Instructor for Programming II. Tutored object-oriented topics including class construction, data abstraction, inheritance, polymorphism, and encapsulation using Java.

Skills

Languages
▪ C++ – Java – HTML/CSS

Libraries
▪ OpenCV – ROS – Point Cloud Library (PCL)

Tools/Software
▪ vim – Netbeans – git – Android Studio – Dreamweaver – Eclipse – Dev-C++

Operating Systems
▪ Windows (XP, Vista, 7) – Linux (Ubuntu)

Educational Background

University of Massachusetts Lowell   **Fall 2015 – Present**

Studying for a Bachelor's Degree in Computer Science.

Middlesex Community College   **2014 – 2015**

Completed 35 credits of coursework towards a Computer Science Transfer degree.
Related Courses: Programming II, Programming III, Data Structures
Honors: 4.0 cumulative GPA on a 4.0 scale

Projects

cmunroe.com (http://cmunroe.com)

Personal website containing links to relevant profiles, resume, and active projects