JEREMY J. KELLER

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EDUCATION

University of Denver, Daniel Felix Ritchie School of Engineering and Computer Science (ABET)

Denver, CO

• BS in Computer Science

Expected Nov 2017

• Cumulative GPA: 3.81

Major GPA: 3.81

• **Relevant Coursework:** Programming in Java, C, and C++; Artificial Intelligence; Parallel and Distributive Computing; Database Management; Software Tools

• Minors: Mathematics and Business Administration

PROFESSIONAL EXPERIENCE

Center for Orthopaedic Biomechanics

University of Denver

Write algorithms to process and analyze biomechanical data

June 2017 – Present

• Develop software to be used in clinical scenarios

Rackfest | Connecting Fans to Celebrities

Denver, CO

 Worked as a web development intern utilizing the Magento eCommerce Platform March – April 2017

COSY Robotics

Philadelphia, PA *June – August 2016*

• A commercial application of the ARCHE Research Group in a startup environment

 Developed scout robots to use artificial intelligence and machine vision to navigate

Unite-SMP Robotics

University of Pennsylvania GRASP Lab

A four-week, Army sponsored course for disadvantaged high school students

KASI La

Instructed and mentored 18 students on the introductory aspects of Programming, electrical and mechanical engineering, and mechanical design

July 2016

ARCHE Research Group

University of Pennsylvania

• Autonomous Robots in Complex Human Environments

GRASP Lab

• Designed and built an unmanned airship platform from scratch

June 2015 – March 2016

NOTABLE PROJECTS

Kinect Joint Kinematic and Biomechanical Gait Analysis

June 2017 - Present

• A C++ application which utilizes the Microsoft Kinect v2 sensor to analyze gait motion of a patient. It uses Microsoft libraries to control the Kinect, then multiple algorithms and functions written from scratch to process raw joint data, find gait imbalances, and output the results cleanly.

GPS Route Planning Application

April – June 2015

• A Java based application which finds local business and attractions along a driving route according to the user's search query. It calls multiple APIs to handle geocoding, geolocation, routing and local business searches. It utilizes elements from Google Maps, Graph Hopper, Open Street Maps and Open Layers.

LEADERSHIP

National Outdoor Leadership School (NOLS), Rocky Mountain Branch

Lander, WY

• Formal training and experience in risk management and multiple leadership disciplines

SKILLS & INTERESTS

Coding Languages: Assembly, C, C++, CSS, HTML, Java, JavaScript, R, Scheme, and Shell Scripting **Experience with:** ArcGIS, Arduino, CAD (Solidworks) and 3D Printing, Git and Subversion, Hadoop, and Linux **Interests:** Data Management, Software Development, GIS Mapping, Robotics and Artificial Intelligence **Hobbies:** Mountaineering, skiing, trail running, and rock climbing