Software Engineer Software Engineer Software Engineer - Niksun Dayton, NJ Work Experience Software Engineer Niksun - Princeton, NJ September 2016 to Present Java/ Python/Javascript/Shell/PHP/Perl) Mohammad Zalmaariz ? Backend development for added features for main product. ? Created a platform on AWS (EC2, CloudFormation) integrated with the company product for user management and network analysis on cloud service ? Wrote scripts to auto generate and modify XML control schemas and aggregate queries ? Set up communication to use sockjs/websocket to replace polling ? Converted http request and response payload from XML to JSON Principal Investigator (C/C++/ Python/C#/Unity) Rutgers LCSR January 2016 to May 2016 Prof. Kang Li ? Developed a multitude of sensors, such as flex, pressure, rotary, and magnetic in order to investigate the tradeoff between cost, accuracy, and precision between their readings at different finger positions visualized through Unity iLab Assistant (C/Java/ Python) Rutgers LCSR - Piscataway, NJ December 2014 to May 2016 Lars Sorenson ? Guided undergraduates in CS concepts, algorithms, and programming Autonomous Software Developer (C/C++/ Python) Rutgers LCSR January 2015 to May 2015 Prof. Marsic ? Engineered a wheeled robot with a conveyor belt input mechanism attached onto a rotary arm ? Integrated a dual-microcontroller system to read encoder values and send velocities via serial communication on an embedded board ? Created a decision tree for updating a state-machine, where each state maps to an optimal policy ? Programmed a pipeline in OpenCV to read frames from a camera to detect and locate the center of tennis balls, as well as estimate their depth via histogram analysis Sensor Developer (C/Arduino) First Place September 2014 to November 2014 Designed and constructed a glove that would estimate finger poses using hand-built pressure sensors on the joints ? Calibrated the readings from an Arduino to move a virtual hand in Unity Education Bachelor of Science in Computer Science in Computer Science Rutgers University - New Brunswick, NJ May 2016 Skills JAVASCRIPT (2 years), PERL (2 years), PHP (2 years), PYTHON (3 years), JAVA (3 years), C, C#, Linux, Embedded Software Additional Information Skills & Interests Programming Languages: Python, C/C++, Javascript/Node.js, Matlab/Octave, Java, PHP, Perl, Shell Libraries and Systems: OpenCV, Arduino, AWS (EC2/S3/CloudFormation), Linux

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