Aakash Thakkar
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EDUCATION

University Of California, Santa Cruz   Fall 2016 - Present
M.S. COMPUTER ENGINEERING
Courses: TIM209 (Statistical Learning) and CMPE264 (Computer Vision)
Teaching Assistant for CMPS 160 (Computer Graphics)

Sardar Patel Institute Of Technology, Mumbai University   June 2012 - June 2015
B.E. INFORMATION TECHNOLOGY, Aggregate Grade: 72%.

Work Experience

Pacmac Automation   ENGINEER
December 2014 – July 2016 / Mumbai, India
- Developed a high speed barcode/OCR/color-shape product inspection system for packaging lines
- Pioneered and contributed to applications requiring high speed servo motor and stepper motor control

Barclays Bank   TECHNOLOGY INTERN
June 2014 – December 2014 / Mumbai, India
- Proposed and redesigned landing page using Scalar graphics on RaphaelJS to enhance user experience
- Contributed several user stories in ASP.NET MVC based project

Automata Systems   DEVELOPMENT INTERN
May 2012 – June 2012 / Mumbai, India
- Worked for Dr. Amit Goradia (PHD Robotics) in developing robust and precise motor control systems for DRDC Defence R & D Organization, India)

TECHNICAL SKILLS

LANGUAGES: Embedded C, C++, Java, Python, PHP, C#/.NET, Javascript, Assembly, Objective C, Swift, R Code

TECHNOLOGIES: Git, Bootstrap, Laravel, RafaelJS, WebGL, OpenCV, GNU/Linux, QT, iOS, Android

Projects

Industrial Vision Packaging Inspection
(June 2014 - Present)
- Cuda accelerated HOG feature extraction in C++
- Cross compiled non-cuda version for beaglebone black

General Purpose Motor Controller
(Jan 2013–May 2014)
- Desktop application for translating ladder drawing to motor control parameters and transferring it using ModBus protocol

Bluetooth Door Lock
(May 2012 – Dec 2012)
- iOS BLE app and AVR based remote magnetic electric lock triggering, powered by Li-Ion Batteries

Ultrasonic Floor Plan Constructor
(May 2011 – May 2012)
- Hand held AVR based ultrasonic distance gatherer, with bluetooth transfer and rendering of floor plan

iOS App Development
(December 2011)
- Developed go4Mumbai (Local Transport route live tracking) and GreCardsPlus (Easy Vocabular) iOS Apps, with 5000+ downloads

QuickMemo (October 2011)
- iOS 5 Notification Center Tweak with 60,000+ downloads(Media: *RedmondPie, InspiredGeek, iPhoneHacks*, etc)

And More..

TECHNICAL PAPERS

Modified Barcode Localization and Decoding using a Modified ScanLine Approach for Industrial Nameplate Verification
November 2015
Devised an algorithm for localizing and decoding barcodes effeciently in an industrial environment
(*ISBN 973-93-80889-96-8*)