Nicolas Huynh Thien

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Objective:
To obtain a software development position using my knowledge of Machine Learning algorithm and techniques.

Education:

Carnegie Mellon University – Pittsburgh, PA
- M.S. in Electrical and Computer Engineering **May 2013**
  - GPA: 3.83

University of California, San Diego (UCSD) – San Diego, CA
- B.S. in Electrical and Computer Engineering **June 2012**
  - GPA: 3.42 / 4.0   Major GPA: 3.7 /4.0

Special Mathematics/Physics – Paris, France **2005-2007**
- MP* Undergraduate coursework strong emphasis on Mathematics and Physics

Skills:
- Ruby, Matlab, LabView, Java, C
- Machine Learning
- Computer Vision: Non/Linear Optimization, Object Recognition, Multi-View Geometry: Stratification, homography, interest points detection, calibration.
- Fluent in French, Vietnamese, basic knowledge of German

Research
- Graduate Research – CMU – *High Assurance Control Algorithms* (DARPA) Attack detection and estimation with Prof. Soummya Kar *Current*

Work Experience

Tandent Vision Science – Computer Vision Software Dev in Pittsburgh, PA *Current*
EcoATM – Computer Vision Intern in San Diego, CA **2012**
- Expanded feature extraction methods for phone recognition, with bag-of-features approaches.
- Implemented Histogram of Gradients in LabVIEW, in conjunction with Machine Learning tools for integration
- Improved recognition rate from 92% to 97%

MaCom-Tech Solutions - Software Intern at Santa Clara, CA **2011**
- Facilitated RF testing using LabVIEW and VBScript for remote operation of Agilent instruments: .s2p file extraction, Device testing
- Developed calibration routines for PNA for Power measurement & Gain compression.
- Deployed executable applications for the Santa Clara research lab.

Hanoi Orphan Shelter - Teacher Assistant in Hanoi, Vietnam **2005**
- Instructed a class of 10 students in English + French during summer session

Projects
Political classification using Twitter– CMU *Current*
- Developed Ruby scripts to build voter dataset, collecting Twitter user tweets and relationships
- Designed a Machine Learning pipeline to cluster data and assign new instances a political affiliation

WikiProject **2012**
- Wrote the Foerstner Corner Detection article on Wikipedia

Sparkfun+RoboMagellan Competitions – IEEE UCSD **2010-2012**
- Designed Vision & navigation system for an autonomous vehicle. Managed team of 4 people

Leadership
IEEE Publicity Chair, UCSD **2009-2012**
- Organized and Publicized campus wide and inter-school events for 300+ members
ECE Undergraduate Student Council, UCSD **2010-2011**
- Coordinated undergraduate ECE organizations