

Perry Naughton

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Education

B.S. Electrical Engineering, University of California San Diego

Expected June 2012

Cumulative GPA: 3.83/ Department GPA: 3.896

Relevant Coursework

- College level Calculus and Physics
- Economics
- Breadth of Electrical Engineering skills
 - Analog/Digital Design
 - Computer Programming
 - EM propagation
 - Signal processing
- Focus: machine intelligence, device and material physics

Cabrillo High School Graduate

Summer 2008

Experience

Statistical Visual Computing Lab (SVCL) at UCSD San Diego, CA

Spring 2011-Present

- Supporting the SVCL, overseen by Professor Nuno Vasconcelos, with a focus of applying research related to computer vision, image processing and machine learning.
- Specifically focus on researching cheap, real time object recognition techniques.

Wang Lab at UCSD San Diego, CA

Winter 2010-Winter 2011

- Supported Professor Deli Wang's research group who focuses on nanowire and thin film technologies and their applications in solar cell, optoelectronic and biomedical devices.
- In this lab I researched the spray pyrolysis technique for thin film heterojunction solar cells, providing me with **clean room experience**, authorization on equipment such as **SEMs**, sputtering systems, ebeam evaporators etc.

Calit2 Summer Scholars San Diego, CA

Summer 2010

- Performed undergraduate research under the Calit2 Summer Scholars program to develop my research and presentation skills.
- Continued my solar cell research at the Wang Lab, helped write a review paper on nanowire solar cells accepted by IEEE and concluded the program with a poster presentation.

Internship with World Minerals Lompoc, CA

Summer 2009

- Performed multiple tasks at one of the largest diatomaceous earth mines in the world, diatomaceous earth is a mineral mainly used for filtration.
- Supported a senior manufacturing engineer doing as built CAD, some PLC programming and instrument calibration.

Cabrillo High School Senior Project Lompoc, CA

Spring 2008

- Completed a senior project touching on all aspects of solar energy in order to help realize a career path
- Presented a paper on the advances of solar technology, built a dye-sensitized nanocrystalline photovoltaic cell and set up a solar thermal collector to optimize the energy gained by the sun.

Publications

Compound Semiconductor Nanowire Solar Cells

Sun, K.; Kargar, A.; Park, N.; Madsen, K. N.; Naughton, P. W.; Bright, T.; Jing, Y.; Wang, D.; , *Selected Topics in Quantum Electronics, IEEE Journal of*, vol.PP, no.99, pp.1-17, 0 doi: 10.1109/JSTQE.2010.2090342

URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5696730&isnumber=4481213>

UCSD Class Projects

ECE 191, Software Defined Radio (SDR) *San Diego, CA*

Spring 2011

- Under the guidance of Professor William Hodgkiss two other ECE students and I designed and built a working FSK and FM radio using GNU radio and USRP hardware.

CSE 190, Recommendation *San Diego, CA*

Spring 2011-Present

- Under Professor Ramamohan Paturi two other CSE students and I designed and built a recommendation system using the java programming language. The goal was to understand different methods and algorithms for recommending projects to people.

Skills/Interests

- Independent learner, self-motivator good time management
- Clean Room Certified
 - SEM
 - Sputtering Equipment
 - Electron beam evaporation equipment
 - Device analyzer and characterization equipment
- Familiar with lab equipment: oscilloscopes, function generators, FPGAs, DMM
- Proficient with the software: MATLAB, PSPICE, AutoCAD, Solidworks etc.
- Academic interests currently include machine intelligence, material science/device physics, economics and sustainable development