

Nick McComb

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🌐 www.nickmccomb.net

EDUCATION

Oregon State University

B.S. in Electrical and
Computer Engineering
Minor in Computer Science
Expected Grad. June 2018

SKILLS

Electrical:

ECAD:

Altium Designer (25+ PCBs),
see <http://nickmccomb.net/pcb>

Simulation:

LT Spice, ngspice

Processes:

SMT Soldering, TH Soldering,
Reflow Soldering, Oscilloscope
operation, Debugging

Programming

Proficient:

C, C++, Arduino C, Python 2.7,
HTML, CSS

Exposure:

PHP, Javascript, Assembly, VHDL,
Bash, Matlab

Tools:

Git, Vim, UNIX, Linux, \LaTeX

COURSEWORK

Microcontrollers
Microcontroller Architecture
Electrical Fundamentals (I, II, III)
Electronics (I, II)
Signals Analysis (I, II)
Operating Systems
Networking

SERVICE

ResiSTORE Volunteering
FIRST Volunteering

01.22.2017

EXPERIENCE

Ocean Mixing Group

Jan 2015 – Present

Lead Electronics Engineer, <http://nickmccomb.net/ROSS> Corvallis, OR

- Developed autonomous robotic oceanographic data platform
- Managed team of 5+ Undergraduate Engineering Students
- Designed uC PCBs, Power Dist., Autonomy, RPi, Battery system, Data Logging, Engine/Motor/Servo Control and more
- Used Altium Designer to design 16+ PCBs (including iterations)

OSU Robotics Club

June 2015 – Present

Club President, <http://osurobotics.club>

Corvallis, OR

- Manage operations of largest academic club on campus
- Increased funding by 375% (budgeted over \$30k per annum)
- Increased membership by over 50% (club has 200+ members)

Dynamic Robotics Laboratory

Summer 2014

Undergraduate Research Assistant

Corvallis, OR

OSU Teaching Assistant

Applied Robotics - ROB421/521

Corvallis, OR

Introduction to Computer Science II - CS 162

Corvallis, OR

Introduction to Computer Science I - CS 161

Corvallis, OR

FIELD WORK

ROSS at Seattle Three Tree Point Engineering Test

Des Moines, WA, Jan 2017, 2 days at sea

Tested multiple ROSS operations with a new 'profiling' winch with feedback system in parallel with other data collection methods.

ROSS at LeConte Glacier <http://nickmccomb.net/leconte-glacier>

Outside of Petersburg, AK, Aug 2016, 7 days at sea

First deployment of two ROSSs at the same time to characterize glacier runoff to contribute to worldwide ice-melting models.

ROSS at Fraser River <http://nickmccomb.net/ross-fraser-river-testing>

Outside of Vancouver, B.C., Jan 2016, 4 days at sea

Characterization of river plume in the Fraser River.

ROSS in ASIRI 2015 <http://nickmccomb.net/asiri-2015>

Bay of Bengal, Aug-Sep 2015, 30 days at sea

Deployed the first prototype of the ROSS system.

OSU Robotics Club at Mars Rover Competition

Worcester, MA, June 2015, 5 days of competition

Electrical Team Lead for the NASA Sponsored Sample Return Robot Challenge at Worcester Polytechnic Institute in MA.