

# McKinnley Workman

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## EDUCATION

North Florida Community College 2009-2010—Associates in Arts Degree (2010)

### Biology and Physics

- Biology I, II (w/ Lab)
- Physics for Scientists and Engineers I, II (w/ Lab)
- Astronomy

New College of Florida, the State's Honors College 2010-2013

### Chemistry, Biology and Physics

- Intro to Statistics
- Compressed Chemistry (I and II)
- Linear Algebra
- Organic Chemistry I, II (w/ Lab)
- Programing (Python, C, Java)
- Plant Physiology (w/ Lab)
- Rhino and Grasshopper3D Computer Animated Design
- Physics Seminar
- Math Clinic (Special Problems)
- Circuitry and Electronic Devices

### Courses outside of school

- Aerodynamics and Model Aircraft Engineering
- Faulhaber Fab Lab: Blender software, circuits
- Intro to Environmental Studies
- Independent Study: Processing, C for Arduino, XML, XHTML, PHP, Javascript, MySQL
- Coral Reef Ecology

### Math, Computer Science and other

- Calculus I (w/ theory), II, III

California Polytechnic University, 2012-2014—Anticipated Bachelors Degree

### Computer Science, Engineering

- Statics
- Electric Circuit Theory
- Dynamics
- Computer Organization
- Linear Analysis
- Welding
- C, Java Programming (Algorithms, O.O.)
- Engineering Design (Drafting)

## EXPERIENCE AND PROJECTS

### Internships, Work and Volunteer Experience

- 2011: Quadrocopters for NASA airspace simulation (building and modifying hardware and software components)-- MLB Company (Mountain View, CA)
- Faulhaber Fab Lab Volunteer (Sarasota, FL)
- Life Guard at Silver Bay of the YMCA (Silverbay, NY)

### New College of Florida Independent Study Projects

- 2011: Robotics with UAF and South Florida Sunbots Hackerspace
- 2012: Visualizing Data (using Processing Language)

### Self-Initiated Projects

- *Complete!* Acquire real-time wireless data from an Arduino to modify a parametric model in Grasshopper3D
- *In progress...* *Visual Opensource Design Database:* Create a database of open source designs that is in a canvas like environment using WebGL
- *In progress...* *PrezIDE:* An IDE that operates like a Prezi canvas as a UI
- Hosting a website on Amazon's free EC2 instance: [www.notmydomain.tk](http://www.notmydomain.tk)

### References:

1. Austin Howers employee of Neerim Corp: 2010 internship with quadrocopters  
[ahoward@spyplanes.com](mailto:ahoward@spyplanes.com) or 650-646-2897
2. Elizabeth Haley boss and head life guard: 2010 work experience  
[elizabethhaley07@yahoo.com](mailto:elizabethhaley07@yahoo.com) or 570-267-8183
3. Jim Hutchins owner or North West Natural Horsemanship: 2010 Internship in natural horsemanship and business management  
[nwnhc@nwnhc.com](mailto:nwnhc@nwnhc.com) or 425-222-7911