

# TYLER CEDRIC BEAUCHAMP

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## Education

University of Washington, Seattle, WA

MAJOR: Computer Engineering

Expected Graduation Date: June 2012

GPA: 3.56

Major GPA: 3.7

High School: Hockinson (Brush Prairie, WA)

## Relevant Coursework

- Computer Science and Engineering (CSE)
  - Web Programming
  - Foundations I
- Introduction to Electrical Engineering
- Calculus, Matrix Algebra, and Differential Equations
- Probability and Statistics for Engineers
- Physics: Mechanics, Electricity, Magnetism, and Waves
- General Chemistry I
- Adv. Technical Communication and Oral Presentations

## Skills

- Experienced with Computers: **Unix/Linux, Macintosh, and Windows** systems.
- Proficient with **Internet based systems** and **Microsoft Office Suite**
- Programming experience with **Java, MATLAB, and basic Python**.
- Designed websites using **HTML, CSS, PHP, JavaScript, Ajax, SQL** and some **Rails**.
- Experience with **Solid Works, research experimentation processes**, and in a **wood and metal shop**.
- Adequate in **Spanish** (3 years in High School) and fluent in **English**.

## Experience

- **Paid Research Assistant (Fall 09 – Ongoing)**: Non-Linear Dynamics and Control Laboratory under Professor Kristi Morgansen-Hill in the Aeronautics and Astronautics department of the UW
  - Software: write C++ control algorithms for autonomous robots
  - Hardware maintenance and redesign of autonomous robotic fish
  - Testing and data collection of UW APL developed Seaglidors
  - Document Seaglider testing (<http://vger.aa.washington.edu/~tbchamp/KWT1977.pdf>)
- **Washington NASA Space Grant Consortium (Summer 2009)**: Undergraduate Research Program (UW)
  - Analyzed human decision-making data with MATLAB
  - Looked for future connections to autonomous vehicles and controls
  - Collected and analyzed experimental data
  - Improved a speed control algorithm
- **Ellis & Associates Lifeguard Training (2008)**: Lifeguard for the City of Vancouver
  - Including: basic first aid, CPR, AED, and oxygen administration.
  - Learned how to take control of a situations, and act professionally under stressful situations
- **At Home At School (AHAS) Volunteer (2007)**: School of Education, Washington State University – Vancouver
  - Instructor and Group Leader for summer school children from low-income families
  - Supervised young children gaining experience as a leader

## Activities

- Member ACM (Association for Computing Machinery)
- Member of the UW chapter of IEEE
- Martin Luther King Jr. Day of Service Volunteer (2009-10)
- Volunteer at Eco Encore
- Volunteer at Seattle Audubon Society
- Assistant Scoutmaster BSA Troop 48 – Leadership

## Honors & Awards

- Dean's list four quarters
- NASA Space Grant Scholar
- SURP 2009 Best Research Presentation
- CPC Eagle Scout Scholarship Recipient
- Eagle Scout with Bronze, Gold, and Silver palms and Vigil honor (Boy Scouts of America)
- High School Valedictorian (4.0 GPA)