

Justin O'Brien

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Education

University of Colorado at Boulder (8/2003 - Present)
Bachelors of Science in Mechanical Engineering (expected 5/2007)
Cumulative GPA: 3.3

Awards and Honors

College of Engineering Academic Dean's List, O'Kelly Scholarship (2006-2007), Chevron Corp. Scholarship (2005 - 2006), Ralphie Reward Scholarship (2005 - 2006), Engineering Summer Scholarship (Summer 2005), F.N.-Hill Engineering Scholarship (2004 - 2005), H.V. Foster Scholarship (2003 - 2004)

Projects

Human Powered Vehicle (2 Years)

Designed and built a human powered vehicle to be raced in a national competition

Design Build Fly (1 Year)

Design & integration of propulsion system in a remote controlled airplane designed by the team

Extra Coursework

Entrepreneurial Business Plan Preparation, Technical Communication & Design, Global Engineering, Materials in Medicine, CS II: Data Structures, Micro & Macro Econ

Internships

Summer Intern, Trex Enterprises Kahului, HI (6/2006 - 8/2006)

Tracking of satellites with an 8-inch consumer telescope as a feasibility study for a larger deployable telescope to be used in support of ground troop operations.

Summer Intern, Department of Water Supply, Engineering Division Wailuku, HI (6/2004 - 8/2004)

Site Surveying, Web Site Design and Maintenance (<http://www.mauewater.org>), Database Management

Work Study

Operations Manager, University of Colorado Environmental Center Boulder, CO (9/2004 - 5/2005)

Ensured smooth operation of the IPF (Intermediate Processing Facility) through regular equipment maintenance, training of new employees, and supervision of recycling assistants for optimal productivity.

Recycling Assistant, University of Colorado Environmental Center Boulder, CO (9/2003 - 5/2004)

Sorted through materials received from on-campus recycling bins ensuring a high quality output of recyclables

Volunteer Work

Web Design

- ASME (<http://www.colorado.edu/studentgroups/asme>): Webmaster (01/2006 - Present)
- CU Wildlife Initiative (<http://www.colorado.edu/studentgroups/cuwi>): Designed (09/2005 - 12/2005)
- Colorado Association for Recycling (<http://www.cafr.org>): Maintained and updated (6/2004 - 8/2004)

Computing Skills

Applications

Solidworks, Matlab, Mathematica, ArcGIS, Microsoft Applications, Photoshop

Programming Languages

C++, DHTML (Javascript, HTML, and CSS)

Leadership & Activities

Human Powered Vehicle (Team Captain), ASME Officer (Web Master), Design Build Fly, CU Flying Club, Private Pilots License (60+ hours), Intramural Sports, Rock Climbing