

## JONATHAN ALAN BYRON

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### OBJECTIVE:

Position in ocean instrumentation, mechanical design of vehicle actuation and sensors.

### EDUCATION:

- **B.S. Mechanical and Aeronautical Engineering** (double major)  
University of California, Davis  
GPA: 3.11
- **Currently:** First year of Ocean Engineering Graduate Student  
University of Rhode Island  
Masters of Science expected June 2006
- **Related Course Work**

Engineering Graphics	Calculus (4 class series)
Mechanical Design	Linear Algebra
Aerospace Design	Differential Equations
Manufacturing Processes	Physics (4 classes)
Static and Dynamic systems (3 classes)	Chemistry (2 classes)
Thermo and Fluid Dynamics (4 classes)	Material Science
Aerodynamics (computational and applied)	Engineering Mathematics (2 classes)

### SKILLS:

- Computer:  
3-D solid modeling and CAD – Solid-Works, Bryce 4, IDEAS, Infini-D, MiniCad
- Machine Shop:  
Experienced in drilling, milling, and lathe operations with aluminum

### SPECIAL PROJECTS:

- Designed and built simple remotely operated submersible vehicle (R.O.V.) with video camera as an independent science project for high school. I continue to develop new designs and modifications as ultra low cost mini R.O.V.'s.
- Began work on UCD Undergraduate Research Program project for the NASA Reduced Gravity Student Flight Opportunities Program to study the behavior of Martian dust due to intense vortical motion in fractional gravity. (canceled by group leader due to occurrence of an outside personal emergency)

### WORK EXPERIENCE:

- **Undergraduate Assistant**, UCD Mechanical and Aeronautical Engineering Dept.  
Assist in and conduct Turbulent Boundary Layer Wind Tunnel tests for gas dispersion and pedestrian level wind speeds for new buildings and developments, Also aided in research and experimentation of Martian dust particle saltation and abrasion through NASA Ames. (Summer 2001 – Fall 2004)
- **Teaching Assistant**, URI Ocean Engineering Department  
Assist in the teaching of undergraduate students in ocean instrumentation laboratories. (September 2004 – June 2005)
- **RIME GK-12 Fellowship**, Office of Marine Programs, URI GSO  
Fellowship partnering teachers in the Rhode Island k-12 curriculum with graduate students to bring education of current marine and environmental sciences to the classroom. (June 2005 to present)