

Ryan Potter
4376 Butler Circle
Boulder, CO 80305
303-494-4470
Ryan.potter@colorado.edu

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Dear Robert Zubrin:

I am interested in the summer internship position for the hands-on development and test of small rocket engines at Pioneer Astronautics. I am a junior in Aerospace Engineering at the University of Colorado, and will graduate in 2002. My experience with small rocket engines includes one year of design and fabrication of solid rocket engines for a High Power Rocketry (HPR) project, enrollment in a graduate level *Spacecraft and Rocket Propulsion* course, and assuming the Systems Engineer position for the ambitious MaCH-SR1 launch vehicle project at CU. I have literally been interested in and involved with rocketry in some way since I was a child.

I have many skills that would be useful to most any internship position in the aerospace industry. My knowledge and experience in the aerospace field comes primarily from my education at the University of Colorado, and the work that I have done at the Colorado Space Grant Consortium. From the aerospace curriculum, I have theoretical knowledge of statics and dynamics, structures and materials, and aerodynamics. The Computer Science and Electrical Engineering Departments have allowed me to take some advanced RTOS programming and senior-level embedded system design courses. From CSGC I have hands-on experience in software design, hardware design, and embedded systems integration. I received my Private Pilot license in 1993, which gave me real-world experience in the aviation industry.

In addition to theoretical knowledge, I gained an immense amount of practical engineering experience as a Reactor Operator aboard the USS Indianapolis. Aboard this nuclear fast attack submarine, I qualified to operate, maintain, and repair the nuclear reactor and all of the associated reactor safety electronics. Analog electronics troubleshooting became my forte. In addition, I learned how the propulsion plant, and the entire submarine, operated and worked together from a systems point of view. This hands-on experience has proved extremely useful to my engineering career. Please see the attached resume for more details about my education and experience.

I am excited to be considered for an internship position by Pioneer Astronautics. Should you need additional information, you can reach me at ryan.potter@colorado.edu, or at 303-494-4470. I am available for an interview at your convenience. Thank you for your time. I look forward to hearing from you soon.

Sincerely,

Ryan Potter

Enclosures (1)

Ryan Potter
303-494-4470

ryan.potter@colorado.edu
<http://www.rlpotter.com/ryan/resume>

RYAN POTTER

Objective

Seeking employment with a reputable company that will give me valuable hands-on experience in the aerospace industry. My long-term goal is to obtain a graduate degree in Aerospace Engineering.

Education

1998 - present **University of Colorado at Boulder** Boulder, CO
Major: Aerospace Engineering
With Embedded Systems Certification
Anticipated graduation date: 2002 Cumulative GPA: 3.51

1996 Navy Electronics Technician Maintenance School Pearl Harbor, HI
1994 United States Naval Nuclear Prototype School INEL, ID
1993 - 1994 United States Naval Nuclear Power School Orlando, FL
1992 - 1993 United States Nuclear Field ET-A School Orlando, FL

Work Experience

2000 - Now **Colorado Space Grant Consortium** Boulder, CO

- Student Systems Engineer for the Three Corner Sat Project.
- Designing and building/writing imaging hardware/software.

1992 - 1998 **United States Navy Submarine Force** Pearl Harbor, HI

- Operated the nuclear reactor onboard the USS Indianapolis
- Troubleshoot and repaired all malfunctioning reactor safety equipment
- Led training sessions for division personnel on nuclear power plant operations and theory, and on electrical/electronics theory
- Worked extensively with CONFIDENTIAL and SECRET classified material. Held four temporary TOP SECRET clearances
- Achieved ET-1/E-6 rank in 5 ½ years

Skills

Computer: Network administration, Unix, C/C++, PERL, MATLAB, STK, Win 98/NT/2000, MS Office.
In progress: Real-time embedded systems, VxWorks.
Languages: English; some Japanese and Spanish
Other: Private pilot, Technical writing, Team skills

Organizations & Honors

Sigma Gamma Tau- National Aerospace Honor Society
Golden Key National Honor Society
MaCH-SR1 Launch Vehicle- Systems Engineer
Alpha Phi Omega- National Service Fraternity
Phi Chi Sigma- National Veterans Fraternity
University of Colorado Engineering Council; Officer
University of Colorado Curriculum Improvement Team
Colorado Space Grant College; CX and 3CS projects
CU Boulder Deans List