

John T. Rappolt

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Objective: A job or internship that will utilize and expand my knowledge in mechanical engineering

Education

- La Costa Canyon High School –Class of 2008
 - GPA: 4.20
 - Top Chemistry Student 2006
- California Polytechnic State University College of Engineering
 - Pursuing a Bachelor of Science in Mechanical Engineering
 - Major GPA: 3.52
 - Current GPA: 2.78
- Related Coursework
 - Calculus I, II, III, IV
 - Linear Analysis I, II
 - Drafting and Design Communication I, II (incl. Labs)
 - Physics I, II
 - Statics
 - Technical Communication
 - Welding (Lab)
 - Philosophy of Design

Work Experience

- Summer 2009 – **Assistant Engineer** – Tracer Environmental Sciences and Technologies – San Marcos, CA
 - Researched new pump motors for DB2001 Atmospheric Samplers
 - Designed a new mount for the new motor in the DB2001s
 - Experience with PICBASIC programming and SolidWorks.
 - Designed and constructed an automatic sample bag cleaner using PICBASIC programming and SolidWorks design
 - Performed troubleshooting and diagnostics on Mobile Sampler Programmers
 - Performed routine cleanups to maintain safety in the back bay and lab
- Summer 2007 – **Engineering Intern** - Tracer Environmental Sciences and Technologies Inc. - San Marcos, CA
 - Assisted in programming a database program that tracks maintenance and repair history of air monitoring equipment
 - Conducted performance tests on air sample units

- Performed troubleshooting of our mobile programming module for air sampling units
- Conducted reassembly of nearly 35 sampler units in preparation of field programs.
- Performed calibration tests on tracer gas release systems
- Conducted tasks in support of readiness of several commercial and government sponsored atmospheric dispersion studies.
- Corrected and modified Piping and Instrumentation Diagrams with CAD software
- Updated EPA required Process Safety Management and Risk Management Plans for existing commercial customers
- Assisted in filing project related reports and documents into properly organized files for long-term storage.
- Spring/Summer 2006 – ***Technician Assistant*** - Tracer Environmental Sciences and Technologies Inc. – San Marcos, CA
 - Served as a technician assistant for environmental studies at Beverly Hills High School District
 - Conducted field tests regarding dispersion of pollutants in and around the Beverly Hills High School campus
 - Prepared sample media for on-site data collection
 - Assisted in logging in field tracer gas release systems

Community Service

- Phi Sigma Kappa Fraternity
 - Various community service days and philanthropy including beach clean-ups, raffle event for Special Olympics, and environmental restoration projects.
- Bethlehem Lutheran Church – Encinitas, CA
 - Summer Community Service Trips (2004-2007) – fed homeless, restoration work, church maintenance, food bank
- Boy Scouts of America
 - Various Eagle Projects in and around the Encinitas area including bone marrow drive, trail restoration, erosion control

Achievements and Activities

- Phi Sigma Kappa Fraternity (2008 – present)
- Boy Scouts of America – Troop 777 – attained the rank of Life Scout, 18 merit badges (2004-2006)
- Scholar Athlete – maintained a GPA of 3.5 or greater while on a varsity sport (2006, 2007, 2008)
- All Academic Team (2006-2008)
- National Honors Society
- Honor Roll 2005-2008

Personal References

- Available Upon Request