

James Lynch

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PROFILE

Senior studying mechanical engineering with specific interests in thermodynamics and fluid flow systems. Knowledge of stress/strain, thermodynamic, fluid flow, and finite element analysis principles combined with practical problem solving skills and experience. Experienced as a team member and as a leader of a group of peers.

GOALS

Graduate from the University of Portland May 2005, with BSME and a mathematics minor. Pursue professional job in west coast region. Interested in obtaining a master's in mechanical or aerospace engineering.

EDUCATION

BSME, Mechanical Engineering *University of Portland* Expected: May 2005
- **Minor: Mathematics** *Portland, OR* Current GPA: 3.59

Relevant Coursework: Computer Aided Design, Thermodynamics, Heat Transfer, Fluid Mechanics, Turbomachinery, Machine Design, Manufacturing Processes, Measurement and Test, Materials Science, Strength of Materials, more...

- Dean's List, 2001-2004
- Experience with Ideas, ANSYS, Solidworks, Office Suite, Matlab, Photoshop
- Computer Language Experience: C++, PHP, HTML, SQL database

Washington State Diploma *Winlock High School* August 1998-June 2001
Winlock, WA GPA: 4.00

- Class Valedictorian
- Honor Roll, 1998-2001
- Washington Award for Vocational Excellence (WAVE)

WORK EXPERIENCE/SPECIAL PROJECTS

Senior Design Project *Formula SAE Race Car* August 2004-Present

- Project: Design, build, and race a 600cc class car in annual Formula SAE competition
- Engineer in charge of lubrication and cooling subsystems
- Duties include selection and purchasing of components and integration into the system as a whole. Coordination with other engineers is critical for high performance
- Working with 6 other seniors and multiple underclassmen

Blue Road Research *Web Development* Gresham, OR
Intern June 2004-Present

- Redesigned website (<http://www.bluerr.com>) with new look, information, and features
- Assisted in the lab with optical strain sensor product development and assembly
- Currently still under employment on an "as-needed" basis

University of Portland Computer and Telecommunications Services *Residential Computer Consultant* Portland, OR
August 2003-Present

- Provided education and assistance to students in residence halls

- Directly assisted with a variety of problems including phone and network issues, computer setup and security, hardware and software problems, and virus infections
- Senior Year: Served as “RCC” Director. Trained and coordinated the efforts of the 8 other RCC’s for one year.

University of Portland Computer and Telecommunications Services *Telecommunications Technician* Portland, OR
March 2002-Present

- Maintained and improved campus networking and telecommunications infrastructure
- Specialized in the maintenance and operation of the NEC 2400 IPX telephone switch
- Performed on-site and remote service for over 3000 students and staff

Sears, Roebuck, and Co. *Customer Service Specialist, Main Aisle Cashier* Kelso, WA
Seasonal, 2001-2003

- Served general customer needs in the paint and hardware departments with a key emphasis on customer satisfaction.
- Helped customers make informed decisions on purchases by presenting strengths and uses of a wide variety of hand and power tools.
- Finalized purchases for customers with sales totaling as much as \$3000 per day

Freshmen Design Project August-December 2001

- Developed radio controlled vehicle to move a simulated sensitive package (a mousetrap) across an obstacle course with other University of Portland engineering students
- Worked as a member of a group of three students to utilize individual talents against time and budget constraints and in a competitive environment
- Successfully built, tested and analyzed, as a team, a device capable of accomplishing the defined tasks

LEADERSHIP/VOLUNTEER EXPERIENCE

American Society of Mechanical Engineers February 2003-Present

- Student Section treasurer (junior) and president (senior)
- Assisted in planning and organizing student development and recreational activities
- Attended local and regional professional section events

University Committee for Computing and Telecommunications August 2003-Present

- Student representative, one of two
- Committee was charged with advising the president and Board of Regents on technology issues on campus
- Committee recommendations were presented directly to the university president

Associated Students of the University of Portland Senate February 2003-Present

- School of Engineering (2003), Junior Class (2004) Representative
- Worked with students and staff to address concerns related to the university
- Assisted in the allocation of the student body’s nearly \$300,000 budget for student events, clubs, and services
- Served on Technological Affairs committee to deal specifically with concerns related to student access to technology

Collegiate Challenge – Habitat for Humanity Nov. 2002-May 2003

- Cooperated with Habitat for Humanity to build houses for low income families
- Dedicated the week of spring break along with 18 other volunteers to travel to Long Beach, CA to participate with local Habitat affiliate
- Member of budget committee which oversaw fundraising and expenses

National FFA Organization, Winlock Chapter August 1998-Present

- Served as chapter president: 1999-2001
- Committee chair for Technology and Executive committees

- Oversaw and led recruitment, leadership, vocational, safety, and entertainment activities for the largest group in the high school with over 100 members

Science Team

Feb. 1999-Apr. 2001

- Team captain: 2000-2001
- Winning Team, 2001 Washington Region Ocean Sciences Bowl, Competed at Nationals
- Bonneville Power Administration Science Bowl: 1999-2001. All-Star Award: 2001

Other Leadership/Service Experience

- MI-Youth Summer Program Volunteer: 2001-present
- Office of Campus Ministry Volunteer: 2003-present
- University of Portland Speech and Debate Team: 2001-2002
- Winlock High School Varsity Track, Varsity letter: 2000-2001
- Winlock High School Band: 1997-2001
- Saint Mary's Parish Youth Group: 1998-2002

MISCELLANEOUS INTERESTS/ACTIVITIES

- University of Portland Bike Club, a.k.a. "UP Velo"
- University of Portland Intramural Sports
- Oregon Adult Soccer Association