

Bryan K. Schache

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OBJECTIVE:

An entry-level position as a mechanical design engineer requiring strategic solutions to complex problems in a team-based environment

EDUCATION:

University of Missouri-Columbia, August 2002 to present
Bachelor of Science in Mechanical and Aerospace Engineering

- **3.988 GPA**
- Anticipated graduation in May 2006

University of Missouri-Columbia, August 1993 to December 1997
Bachelor of Science in Physics

- **3.985 GPA**, Summa Cum Laude
- Engineering, Physics and Music departmental scholarships recipient

EXPERIENCE:

Campus Crusade for Christ International

July 1998 – present

Senior Field Staff – University of Missouri-Columbia, August 2002 – present

- Generate over \$70,000 annually to cover salary, benefits, and personal business expenses. This increased the budget for human resources allocation to Columbia by 40 percent.
- Direct multiple strategies to mobilize student leadership toward organizational growth and development. Coach and equip 40 student volunteers influencing hundreds of students involved in programming.

Senior Field Staff – St. Louis Metro Area – July 1998 – August 2002

- Launched and sustained local chapters on three campuses in the St. Louis Metropolitan area, taking organizational responsibility for one-fifth of the team's scope. Mentoring and coaching resulted in these local chapters becoming self-sustaining.
- Created and directed a summer internship program involving recruiting, employing, training and leading eight student interns. This new program enabled the St. Louis Metro team to expand fulfillment of its mission, vision and values through the summer months while concurrently developing student leadership.
- Traveled domestically and internationally (Hungary and Ukraine) to analyze and report on ministry opportunities for organizational growth. Assisted in the training and sending of short-term staff to pioneer a new chapter in Odessa, Ukraine.

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Mallinckrodt Inc., St. Louis, Missouri

January-June 1998

Health Physics Department – Maryland Heights Radiopharmaceutical Plant

- Assisted the Health Physics team in implementing a radiation safety contingency plan to significantly reduce compliance incidents related to the rules of the Nuclear Regulatory Commission.
- Performed routine radiation exposure and contamination level surveys to monitor and ensure radiation safety for employees.
- Initiated software development with Information Technology to track and trend radiation safety incidents. This tracking system resulted in improved diagnosis and remedy for the causes of excess exposures and contaminations.
- Responded to radiation safety incidents by conducting situational analysis that led to effective cleanup and timely management reporting.

University of Missouri-Columbia

1996-1997, Summer 2004 and 2005

Research Experiences for Undergraduates – Summer 2004 and 2005

- Received NSF grant for honors research in short fiber reinforced polymer composite materials.
- Developed MATLAB[®] code to predict fiber orientation during mold-filling utilizing neural networks.
- Communicated results in an honors undergraduate thesis entitled, “A Neural Network Based Closure for Modeling Short Fiber Suspensions.”

Total Person Program Tutor – Fall 1997

- Conducted one-on-one tutoring for collegiate athletes in mathematics and science courses.

Engineering Department Tutor – 1996-1997

- Maintained office hours in the engineering residence hall.
- Provided individual and group tutoring to students in mathematics, engineering and physics courses.

Howard Hughes Fellowship Recipient – Summer 1996

- Assisted a research professor in his work to study the surface characteristics of materials. Responsible to control the temperature of the sample material under experimentation. This required designing and assembling a cryogenic refrigeration apparatus for the mock testing environment.
- Documented data and presented results at a statewide competition.

HONORS & ACTIVITIES:

- Pi Tau Sigma, Mechanical Engineering Honor Society
- Tau Beta Pi, Engineering Honor Society
- American Society of Mechanical Engineers, Vice President 1994-1995
- Engineering Student Council, Display Case Coordinator 1994-1995
- Curators and Bright Flight Scholar, 1993-1997
- Mortar Board, Honorary Society
- Marching Mizzou, 1993-1994