
BRETT RONALD BANTHER

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OBJECTIVE

To gain employment in the field of mechanical engineering using my hands-on educational experience.

EDUCATION

Western Carolina University (August 2007 – Present)
Masters of Science in Technology from Graduate School; GPA 4.0
Advisor: Dr. James Zhang

Western Carolina University (August 2002 – May 2006)
Bachelors of Applied Science in Engineering and Technology from the Honors College; GPA 3.97
Institutional Honors: Suma Cum Laude

RELEVANT SKILLS

- Software** Experience with PC and Macintosh, MS Word, MS PowerPoint, MS Excel, Pro/Engineer Wildfire 2.0/3.0, OneCNC, LabVIEW, MicroWin, Minitab, Adobe Photoshop, Final Cut Studio Pro, and DVD Studio Pro.
- Courses** Coursework covering fundamentals of parametric modeling and design, automation, rapid prototyping, machining, design of experimentation, quality assurance, fluid power systems, and polymers technology.
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EXPERIENCE

Western Carolina University, Cullowhee, NC
Kimmel School Graduate Research and Teaching Assistant **2007 - Present**

- Collaborating with professors to advise undergraduate students, instruct classes, and grade tests and lab reports.
- Conducting research pertaining to rapid prototyping systems and controllable process parameters.
- Design and fabrication of many projects for customers of the school's Center for Rapid Product Realization.

Film Industry, Los Angeles, CA
Actor/Filmmaker **2006 - 2007**

- Furthered a lifelong hobby of film and filmmaking between educational degrees by working on a multitude of professional and independent film projects.
- Worked as an actor, gaffer, assistant director of photography, producer, or writer/director depending on the project.

Blue Ridge Paper Products Inc., Waynesville, NC
Engineering Intern **2005**

- Worked with several quality and mechanical engineers to prevent mechanical failures throughout the manufacturing facility.
- Generated preventative maintenance request forms for newly acquired equipment.
- Performed routine maintenance on all equipment throughout the facility.

Western Carolina University, Cullowhee, NC
Honors College Office Assistant **2004 - 2006**

- Assisted the Honors College Dean, advisors, and secretary in maintaining the workflow of the College.
- Represented the Honors College during Open Houses, Orientations, and other various functions.

NOTEWORTHY PROJECTS

Optimization of Process Parameters of an FDM Titan Rapid Prototyping Machine (Spring 2008 – Present) – Thesis work conducted to characterize user settings of an FDM Titan RP machine in order to improve accuracy and help achieve intended fits and tolerances between mating parts set forth by the designer.

Automated Can Crusher (Fall 2008) – Design and fabrication of an automated can crusher assembly used as a laboratory exercise to teach undergraduates PLC ladder logic and automation skills at Western Carolina University.

Wrist Rehabilitation Device (Summer 2008 – Present) – Design and fabrication of mechanical device used to strengthen and measure wrist movement for a customer of the Western Carolina University Center for Rapid Product Realization.

Automated Conveyor Belt (Fall 2007) – Design and fabrication of an automated conveyor belt assembly used as a laboratory exercise to teach undergraduates PLC ladder logic and automation skills at Western Carolina University.

HONORS, ACTIVITIES, & PROFESSIONAL SOCIETIES

- Awarded Graduate Research/Teaching Assistantship (WCU)
- The Honors College Board of Directors Advertising Chair, Vice President, President, 2004, 2005, & 2006 respectively (WCU)
- The Honors College Mentor Program committee member/Mentor (WCU)
- Honors College Scholarship winner (WCU)
- Western Carolina University's Achievement Award Scholarship winner
- Western Carolina University's Computer Scholarship winner
- Vice President and member of the Ultimate Frisbee Team (WCU)

REFERENCES

Dr. Wes Stone – Western Carolina University: Kimmel School Associate Professor
828-227-2168
wstone@wcu.edu

Dr. James Zhang - Western Carolina University: Associate Dean of Engineering and Technology Dept
828-277-2167
zhang@wcu.edu

Dr. Aaron Ball – Western Carolina University: Kimmel School Tenured Professor
828-277-2150
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Dr. Brian Railsback - Western Carolina University: Honors College Dean
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