

GARRETT CHANDLER, GRADUATE RESEARCH ASSISTANT

Department of Biosystems and Agricultural Engineering
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Professional Preparation

B.S.A.E.	Texas A&M University	Agricultural Engineering	2003
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Appointments

- 2002 to 2003 NASA/Texas A&M University (College Station, TX), Undergraduate Research Assistant, Mechanical, Information and Electronic Systems
- 2001 to 2003 Independent Study/Texas A&M University (College Station, TX), Researcher, Electronic Dynamic Traction Control for Off-Road Vehicles
- Fall 2001 New Holland Inc. (College Station, TX), Consultant, Sales Information Management
- Summer 2001 New Holland Inc. (Mountville, PA), Technical Intern, Sales Support & Information Management, Central Business Unit
- Summer 2000 CASE Corporation (Burr Ridge, IL), Engineering Intern, Project Manager, Administrative Assistant, Tillage Group

Major Professional Accomplishments

- Awarded USDA National Needs Fellowship, 2003 – 2006.
- Graduated Cum Laude from Texas A&M University, 2003.
- Awarded the College of Agriculture Senior Merit Award, 2003.
- Awarded Outstanding Graduating Senior in Agricultural Engineering by Gamma Sigma Delta, 2003.
- Awarded Conference on Student Government Associations Rookie Member of the Year, 2003.
- Inducted into Alpha Zeta Honor Fraternity, 2003.
- Inducted into Alpha Epsilon Agricultural Engineering Honor Society, 2003.
- Inducted into Golden Key Honor Society, 2002.
- Passed the Fundamentals of Engineering (FE) exam, 2002.
- Served on ASAE AE50 Committee, 2002.
- Served as ASAE International Preprofessional 2nd Vice President, 2002 – 2003.
- Awarded College of Engineering, Price Hobgood, and Houston Rodeo Scholarships, 2002.
- Served as Fund Raising Chairman on Aggie Pullers Team, 2002.
- Served as Advanced Traction Control Systems Leader on Aggie Pullers Team, 2002.
- Served as ASAE Southern Region President, 2001 – 2002.
- Awarded Fred R. Jones Agricultural Engineering and Houston Rodeo Scholarships, 2001.
- Served as ASAE Texas A&M Preprofessional Branch President, 2001 – 2002.
- Served on Aggie Pullers Team, 2000 – 2002.
- Awarded Houston Rodeo Scholarship, 2000.
- Served as Texas A&M Preprofessional Branch Philanthropy Chair, 2000 – 2001.
- Awarded 4-year San Antonio Livestock Exposition Scholarship, 1998.

Professional Memberships, Honoraries, and Committee Work

The Society for Engineering in Agricultural, Food, and Biological Systems (ASAE), 1999 to present
Alpha Epsilon, Agricultural Engineering Honorary, 2003 to present
Gamma Sigma Delta, Agricultural Honorary, 2003 to present
Golden Key National Honor Society, 2002 to present
TAMU BAE Student Enrichment Fund Committee Chairman, 2002 – 2003.
Conference on Student Government Associations Committee Member, 2002 – 2003.
TAMU BAE Curriculum Development Committee Student Representative, 2002 – 2003.
TAMU BAE Instructional Enhancement Funds Committee Student Representative, 2001 – 2003.

Synergistic Activities

Garrett is a Master of Science student in the Biosystems and Agricultural Engineering Department. Garrett has experience in imbedded control systems, printed circuit design, environmental control, electronic human interface design, ethylene gas filtration, dynamic traction control, internet application development, database information systems, inventory forecasting algorithm development and machine test design.

As an undergraduate research assistant Garrett worked with graduate researchers and faculty at Texas A&M University on plant growth at reduced atmospheric pressures for NASA where he was primarily responsible for designing, developing and manufacturing the electronic control and data communication systems. His M.S. project involves imbedding the data analysis and responsive control associated with optical sensors within the UK BAE food engineering group in the sensor body. Additionally, modifications to the data smoothing algorithm, a move from analog to digital signals, and a more robust human and machine interface will be employed. His current research interests include food process automation, data analysis, optical sensor development, embedded platforms, and electronic control systems.