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ECE News

NASA Space Grant Recipient - Sarah Bailey



Computer Engineering Senior Sarah Bailey has been awarded a \$2000 award through the Oregon NASA Space Grant Consortium and PSU. The scholarship is for undergraduates who want to pursue careers in NASA related fields. Sarah was chosen for her interest in avionics system design and software defined radio.

Sarah has been involved with the Portland State Aerospace Society for the last two years. She has been actively working with the Avionics Team for the last 6 months, and was recently elected president of PSAS. Her senior capstone project is to design a small board to interface between the rocket sensors and the communications bus:

<http://psas.pdx.edu/CapstoneLV2b>

"The Portland State Aerospace Society is a fun group to work with, and it's great to experience a real-world project," states Sarah. "This isn't a lab where all the problems are predefined and have one right answer. No rocketry amateur group in the world has a more complex avionics system, so we're figuring out the questions and answers as we go along. It's gratifying to see something you helped build shoot off into the sky and hopefully come back down safely."

Sarah is also involved in software defined radio (SDR) undergraduate research with Professor Bart Massey in the CS department. "Professor Massey is always looking for students to collaborate with, and I'm sure I'll work on other interesting projects with him," says Sarah. The website for the software

Find this article at: <http://www.ece.pdx.edu/News/Sarah%20Bailey.htm>

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defined radio project is <http://wiki.cs.pdx.edu/~sdr/>.

Professor Massey was her mentor last summer for the "Google Summer of Code" project. Summer of Code was sponsored by Google to encourage participation in open source software and hardware projects. <http://code.google.com/summerofcode.html> <http://summer.cs.pdx.edu/> Sarah's project was to design a software defined radio telemetry system for the PSAS amateur rocket. <https://projects.cecs.pdx.edu/~baileysa/SDRRocketTelemetrySystem/>.

The ECE department congratulates Sarah on her award and wishes her added success in her future endeavors.

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