

ORU ALUMNI NEWS

Nathan Francis (2007) and Aaron McCready (2007) were approached recently regarding the senior project they worked on while students at ORU.

The project is a shark bite force meter, gnathodynamometer, to be used on the bull sharks at the Oklahoma Aquarium. Previous research was done, but in one case it was purely mechanical measurements, and the other was completed outside of water. The goal was to expand on this research by testing

The project is a shark bite force meter, gnathodynamometer (say that five times fast!)

in the sharks natural habitat and retrieving precise electrical measurements.

A British film company wanting to use the device in a documentary film about

the extinct shark, carcharodon megalodon, approached the students about their design. They have requested ORU to design and manufacture a second device for their filming.

Nathan says "The improvements we consider, which shall be implemented into the next device, are making communication with the device more accessible, adding more memory to the data acquisition, and increasing the range of motion to the head of the device."

Previously Aaron and Nathan did an interview with Tulsa Fox 23 TV station and was aired as part of Fox & Friends. They also had some air time with a news radio station.

The project won the Oklahoma Society of Professional Engineers Most Outstanding Project in Oklahoma, Student Category.

Looking forward to seeing more from this great project! Thanks to Nathan for providing the information for this story! Nathan Francis is currently working in Tulsa as an Applications and Product Engineer at Baker Hughes Centrilift. ■

DID YOU KNOW?

- ORU engineering 2009-2010 has its largest freshman class ever at 40 new students!
- The ORU engineering department is involved in several projects now including SAE formula racing! (See more on page 2)
- Help us get the word out! For more information about ORU engineering please visit us at the following link: www.engineering.oru.edu

OUTREACH

A team of ORU students and faculty traveled to Oaks Indian Mission, OK on December 11 to install ten computers and a printer that ORU donated as a missions project. ■



Standing from left: John Matsson, Leo Wood, Kenneth Preston, Daniel Benjamin. Sitting from left: Obiye Kolokolo, Matt Meyer.

ORU ENGINEERING DEPARTMENT 2009-2010

The ORU Engineering program this fall had its largest ever group of freshman students with over 40 students in the Introduction to Engineering course. As part of this course three person teams built bridges out of supplied materials including sheets of newsprint, masking tape and balloons that are strong enough to support the weight of telephone books. The bridges must also be high enough that the telephone books, standing vertically on their ends, can pass under the bridges without touching the roadways. ■



Winning team of the bridge building competition: Kerry Kammerlohr, Jessica Shearer, and Stella Oluwadele.

SAE FORMULA RACING

The ORU Engineering program this fall had its largest ever freshman student enrollment with close to fifty students. Senior engineering student Jonathan Luth is working on the frame and engine of the ORU Formula SAE racecar. If you are interested in becoming a sponsor or a part of ORU Formula Racing, or would like more information about the program, please contact us via phone or email: Dr. John Matsson, jmatsson@oru.edu or call 918.495.6935. ■



A portable wheelchair table for the 2009 – 2010 Ability One Network Design Challenge.

WHEELCHAIR TABLE DESIGN

A team of seven students in the manufacturing processes course has been designing, building and testing a portable wheelchair table as a course project this fall. To compete in the 2009 – 2010 “What’s Next?” Design Challenge by NISH, the students completed the task of designing and developing assistive technologies to empower people with disabilities to overcome barriers to employment. The students decided to construct an aluminum table that attaches to the side of a wheelchair. The design will be submitted for competition with other designs for a \$10,000 prize to students and the department. ■

CALLING ALL ALUMNI!

What have you been up to since your days at ORU? We would love to brag about our alumni’s ongoing successes. Let us know what is happening at your work or any other engineering activities and maybe you will see yourself in the next newsletter!

Please send your information to Dr John Matsson at jmatsson@oru.edu

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