

Kyle R. Rakos

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EDUCATION

Purdue University, West Lafayette, IN

May 2017

Bachelor of Science in Computer Engineering from the School of ECE

GPA 3.45/4.00

Minor: Political Science

Trustees Scholarship recipient and Honors College member

PROJECT EXPERIENCE

IEEE Remotely Operated underwater Vehicle (ROV) Team

Team Captain

June 2014-Present

Sponsorship Coordinator

Sept 2013-June 2014

- Led an interdisciplinary team of students to design, construct, and test a vehicle for a 15th place finish in the 2015 MATE International ROV Competition
- Taught inexperienced members electrical and software skills in order to be active members of the team

Star Tracker Project for ECE 362 (Microprocessor Systems and Interfacing)

April 2015

Team Member

- Designed and populated a Printed Circuit Board (PCB) using EAGLE Software in order to create a device that tracks stars for long term exposure pictures
- Interfaced with a 9S12 microcontroller, GPS, IMU, Zigbee, stepper motor, and servo

Kicks for Cancer 56 3 v. 3 soccer tournament

April 2009-June 2013

Founder

- Established and ran annual charity event which has raised over \$45,000 for cancer research

PROFESSIONAL EXPERIENCE

Space Exploration Technologies Corporation, Hawthorne, CA

May 2015-Aug 2015

Production and Test Intern

May 2014-Aug 2014

- Designed, sourced components, and programmed an automated, electromechanical system for implementation on the production floor
- Accumulated raw data into dynamic, interactive reports for valuable analysis resulting in improved production scheduling, reliability, and speed
- Created factory layouts in order to meet production goals using SketchUp software

RELEVANT SKILLS

- Embedded C and assembly language programming experience
- LabVIEW programming knowledge, including use with National Instruments' CompactRIO
- Data analysis using SQL and Tableau software
- C, MATLAB, and Python programming