

# Kyle R. Rakos

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38W161 Grove Hill Ct  
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## EDUCATION

**Purdue University**, West Lafayette, IN

Bachelor of Science in Computer Engineering

Minor in Political Science

Study abroad experience in Spring 2016 at Universidad Carlos III in Madrid, Spain

May 2017

GPA 3.60/4.00

Trustees Scholarship

## PROJECT EXPERIENCE

### **IEEE Remotely Operated underwater Vehicle (ROV) Team**

*Team Captain*

June 2014 – Present

*Sponsorship Coordinator*

Sept 2013 – June 2014

- Revitalized a team in 2015 that previously did not compete to qualify for the international competition through proper delegation, deadline setting, and talent acquisition
- Led the largest interdisciplinary group of students in the team's history to design, construct, and test a vehicle for a 13<sup>th</sup> place finish in the 2016 MATE International ROV Competition
- Selected for the 2016 Flying Fish Award for exemplary leadership and passion for the field out of over 500 competitors

### **Star Tracker Project for ECE 362 (Microprocessors Systems and Interfacing)**

April 2015

*Honors Team Member*

- Designed and populated a PCB to create a device that tracks stars for long term exposure pictures
- Interfaced 9S12 microcontroller to a GPS, inertial measurement unit (IMU), ZigBee, stepper motor, and servo

### **IEEE Student Branch**

June 2014 – May 2015

*Industrial Relations Head*

- Organized company events, career fair assistance events, and was the industrial point of contact for Purdue IEEE

## PROFESSIONAL EXPERIENCE

**Texas Instruments**, Dallas, TX

August 2017

- Applications Engineer

**GE Aviation Systems**, Grand Rapids, MI

June 2016 – Aug 2016

*Quality Engineering Intern*

- Created custom logic for accurate first time yield calculations in order to improve company efficiency
- Encouraged cross-team collaboration in order to rigorously validate various internal metrics
- Received the Above and Beyond Award for successfully delivering results during the internship

**Space Exploration Technologies**, 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

## RELEVANT SKILLS

- EAGLE PCB design software
- Embedded C and assembly language programming experience
- LabVIEW programming knowledge, including use with National Instruments' CompactRIO
- C, Python, MATLAB, SQL, PHP, and HTML programming
- Lab equipment knowledge, including oscilloscopes, multimeters, function generators, power supplies, and soldering irons