

Kyle R. Rakos

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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

PROFESSIONAL EXPERIENCE

Texas Instruments, Dallas, TX

Applications Engineer

Aug 2017 – Present

- Completed a one-year rotation program in TI's High Reliability and DLP Pico group
- Designed and created two grounds up isolated flyback converter reference designs for space satellite applications
- Built a program to accurately display images synchronized with external triggers for 3D scanning applications
- Provided customer support for military power electronics and DLP Pico projectors
- Reviewed and corrected datasheet and application reports for various integrated circuits and evaluation boards

GE Aviation Systems, Grand Rapids, MI

Quality Engineering Intern

June 2016 – Aug 2016

- 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

Production and Test Intern

May 2015 – Aug 2015

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

PROJECT EXPERIENCE

IEEE Remotely Operated underwater Vehicle (ROV) Team

Team Captain

June 2014 – June 2017

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 an 8th place finish in the 2017 MATE International ROV Competition
- Published an article about the team in the September 2017 issue of the IEEE Computer Society magazine as an award for the best technical report at the 2017 competition
- Selected for the 2016 Flying Fish Award for exemplary leadership and passion for the field out of over 500 competitors

Senior Design Project (BB-8 Astromech droid)

Fall 2016

- Designed, manufactured, and populated a PCB to control a robot using a STM32 microcontroller, inertial measurement unit (IMU), Bluetooth Low Energy IC, motor controller, and various power conversion from a battery
- Implemented the mechanical system to drive BB-8 and provide realistic droid movements

RELEVANT SKILLS

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