Kyle R. Rakos

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8749 SW Blvd Apt 5302 Dallas, TX 75206

EDUCATION

Purdue University, West Lafayette, IN

May 2017

Bachelor of Science in Computer Engineering

GPA 3.60/4.00

Minor in Political Science

Trustees Scholarship

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

PROFESSIONAL EXPERIENCE

Texas Instruments, Dallas, TX

Systems Engineer in Space Power

Feb 2020 - Present

Define new integrated circuits through market analysis and collaboration with the design team

Applications Engineer

Aug 2017 - Feb 2020

- 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 electrical and software engineering customer support for power electronics and DLP Pico projectors
- Updated and create external technical documentation for various integrated circuits and evaluation boards

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
- 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

PROJECT EXPERIENCE

IEEE Remotely Operated underwater Vehicle (ROV) Team

Team Captain Sponsorship Coordinator June 2014 – June 2017

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

RELEVANT SKILLS

- Altium and EAGLE PCB design software
- C, Python, MATLAB, SQL, PHP, and HTML programming
- Lab equipment knowledge, including oscilloscopes, multimeters, function generators, power supplies, frequency analyzers, thermal streams, and soldering irons