Richard L. Sbresny

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EDUCATION

ROWAN UNIVERSITY

B.S. in Electrical and Computer Engineering
Expected May 2017 | Glassboro, NJ
Concentration in Systems Engineering
Thomas N. Bantivoglio Honors Concentration
Cum. GPA: 3.3/4.0

COURSEWORK

UNDERGRADUATE

Engineering Clinic
Intro to Digital Systems
Electronics
Computer Architecture
Microeconomics
Intro to Embedded Systems
Mechanical Engineering for ECEs
Engineering Electromagnetics
Digital Signal Processing
Systems and Control
Command and Control (C2)
Electrical Communication Systems
Very Large Scale Integration (VLSI)
Android App Development
Intro to Systems Engineering
Business Logistics
Intro to Systems Simulation and Modeling
Weapons Systems
Discrete Event Systems

SKILLS

PROGRAMMING

Matlab • C • C++ • C#
Python • LaTeX • Java • Javascript
• Verilog • DOORS Extension Language

SOFTWARE

Visual Studio • Matlab • Diptrace • ANSYS Maxwell • Quartus II • Code Composer Studio • Unity • Android Studio • TINA TI • IBM Rational DOORS

PROJECT MANAGEMENT

Experienced with Agile Development Process

SECURITY CLEARANCE

Current Department of Defense (DoD) Secret Security Clearance

EXPERIENCE

ROWAN UNIVERSITY | Admissions Ambassador

September 2016 – Present | Glassboro, NJ

- Provide campus tours to prospective students to make them feel welcome.
- Requires strong communication skills and public speaking ability.

LOCKHEED MARTIN | College Student Technical Specialist

May 2016 – August 2016 | Moorestown, NJ

- Used high-fidelity radar simulation to run tests for a new set of requirements in support of a Long Range Discrimination Radar (LRDR).
- Simulation output was used to gather performance metrics on track accuracy, track precision, and discrimination.
- Data was used for the preparation of a technical white paper to be delivered to the Missile Defense Agency (MDA).
- Automated conversion process of delivered threat data using Python and Matlab scripts which saved approximately 80 hours of labor per delivery.

LOCKHEED MARTIN | College Student Technical Senior

July 2015 – August 2015 | Moorestown, NJ

- Supported the Aegis Combat System's Display Applications Group (ADS).
- Investigated test metrics and developed a defect density report of the ADS Test Observation Report (TOR) and Computer Program Change Request (CPCR) Backlog.
- Presented defect density report to project stakeholders and management.

ENGINEERING CLINICS

PROFWAVE

Senior Engineering Clinic | September 2016 – Present

- Researched, designed, and simulated a buoy-pendulum Ocean Wave Energy Converter (WEC).
- Utilized Rowan's alumni crowdfunding campaign PROFfunder to acquire funding for fabrication and testing of the WEC.
- Will implement Raspberry Pi based Data Acquisition System for output power measurement and accelerometer data collection from the WEC (Spring 2017).
- Will build and test WEC based on design illustrated in report (Spring 2017).

VR SIMULATION OF UNMANNED AERIAL SYSTEMS (UAS)

Junior Engineering Clinic | September 2015 – May 2016

- Worked with the Federal Aviation Administration (FAA) to develop a simulation for UAS, more commonly referred to as Drones, within Rowan's 10-Screen Virtual Reality Collaborative Environment (C10).
- Live flight data was streamed over AviationSimNet using IEEE Standard 1516 HLA to create a simulation of the UAS flight in the C10 for the purpose of investigating the impact of different FAA regulations on UAS.

EXTRACURRICULAR INVOLVEMENT

2016 - Present	Head of Hacker Experience	ProfHacks 2017
2015 - 2016	Head of Hacker Experience	ProfHacks 2016
2013 - Present	Student Branch Member	RAS
2013 - Present	National and Student Branch Member	IEEE