

# NEIL EVERETT RENS

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## EDUCATION

**Stanford University School of Medicine**  
Doctor of Medicine

**Palo Alto, CA**  
*Expected July 2021*

**Erasmus University Rotterdam**  
Master of Health Economics, Policy, and Law  
Ranked in top 5 out of >150 students

**Rotterdam, The Netherlands**  
*Expected July 2017*

**The Johns Hopkins University**  
Bachelor of Science in Biomedical Engineering  
Minor in Entrepreneurship and Management  
Cumulative GPA: 3.93

**Baltimore, MD**  
*May 2016*

**St. Augustine High School**  
Valedictorian  
Austin Scholar Summa Cum Laude

**San Diego, CA**  
*June 2012*

## HONORS AND AWARDS

- Holland Scholarship, Erasmus University Rotterdam June 2016
- Richard J. Johns Award for Outstanding Academic Achievement May 2016
- Dean of Student Life Achievement Award May 2016
- Fulbright – Suzana Rodrigues Grant Mar. 2016
- Rhodes Scholarship Finalist Nov. 2015
- Vredenburg Scholar, Johns Hopkins University May 2014
- Ford Scholar May 2012
- Tau Beta Pi Engineering Honor Society Dec. 2014
- Dean's List, Johns Hopkins University Fall 2012-May 2016
- Eagle Scout Mar. 2011

## RESEARCH

**Sharecare, Inc***Clinical Strategy/ Digital Health Intern***Atlanta, GA***May 2016 - Aug. 2016*

- Conducted due diligence for acquisition of a competitor with \$300M in revenue
- Analyzed financial implications of ACA, uncovering market opportunities in the millions of dollars
- Designed disease management programs that facilitate personal health improvements

**The Scripps Research Institute***Research Intern***La Jolla, CA***May-Aug. 2013, June-Aug. 2012*

- Investigated role of gene expression in inherited complex traits through analysis of genomes
- Created YouTube playlist to teach applications of genomics to patients (>26,000 views)
- To reduce need for invasive procedures, evaluated potential for iPS cells in modeling diseases

**Ignyta, Inc.***Research Intern***San Diego, CA***June-Aug. 2013*

- In an effort to create more effective diagnostic tools for rheumatoid arthritis and systemic lupus erythematosus, studied sample population demographics and identified under-represented subgroups crucial to mirroring actual afflicted population
- Analyzed methylation data from DNA sequencing runs, identified underperforming PCR primers, and proposed methods for improving CpG site targeting

**University of California, San Diego****California Institute for Telecommunications***Intern***La Jolla, CA***Jan. 2012*

- To demonstrate the viability of powerful virtual reality models, compiled files from Google Warehouse to build 3D models of San Diego, CA; Mecca and Medina, Saudi Arabia
- To prepare multi-formatted files for use in proprietary StarCave virtual reality room, leveraged Python for decompression and conversion to useful data
- Undertook preliminary experimentation to explore potential of creating 3D movies using stereoscopic video taken from two separate cameras

**University of California, San Diego****HIV Neurobehavioral Research Lab***Intern***San Diego, CA***Sept. - Dec. 2011*

- To compare the efficacy and safety of anti-retroviral drugs, utilized programming language, “R,” to analyze massive, complex datasets comprised of cross-sectional and longitudinal experiments

## ENGINEERING AND DESIGN

### **Aezon, LLC**

**Baltimore, MD***Chief of Business Development and Integration Design**Dec. 2012 - Present*

- Co-founded company to design point-of-care device for early detection of 15 distinct diseases
- Raised more than \$100,000 through grants, crowdfunding, and competitions
- Selected as 1 of 7 finalists from more than 300 entrants for \$10M Qualcomm Tricorder XPRIZE

### **Biomedical Design Team**

**Baltimore, MD***Team Leader**Apr. 2015 - May 2016*

- Led multidisciplinary team in the design of a pill bottle that addresses opioid abuse
- Selected to present at BME Design Day Competition (12 selected out of 50 entrants)
- Honored as “Best Team Leader” out of 15 candidates
- Awarded Malinow Bridge Funding (\$2,750) to continue development beyond the classroom

### **Involution Studios**

**Arlington, MA***Healthcare Design Intern**June - Aug. 2015*

- Built interactive website to educate public about the Patient Protection and Affordable Care Act
- Researched and forecasted impact of digital technology on medicine over the next ten years

### **Engineering World Health (EWH) Summer Institute**

**Gisenyi, Rwanda***Biomedical Technician**May - July 2014*

- Recognizing chronic shortage of providers and equipment in remote areas of Rwanda, presented mHealth strategy to Ministry of Health
- Given lack of inventory control, implemented barcode system for 400 pieces of medical equipment
- Repaired 20 pieces of medical equipment at Rubavu District Hospital valued at more than \$100,000

### **Johns Hopkins University**

**Baltimore, MD****Projects in the Design of a Chemical Car***Aug. 2012 - May 2013**Team Member*

- Designed and calibrated a chemical reaction to stop moving vehicle after any desired time
- Researched, validated, and calibrated various chemical reactions and stopping mechanisms

## LEADERSHIP

### **The World Healthcare Forum**

*Student Board Member*

**The Hague, The Netherlands**

*Oct. 2016 – Dec. 2016*

- Prepared and presented declaration summarizing key points of all presentations during conference
- Delivered presentation about financing hospitals in developing countries to ~50-member audience
- Assisted in research for presentations as well as marketing and logistics, leading to successful reception of more than 250 attendees across two days

### **Johns Hopkins University PILOT Program**

*Core Leader*

**Baltimore, MD**

*Aug. 2013 - May 2016*

- Taught teaching strategies to 100 PILOT leaders, enabling them to collectively serve 800 students
- Facilitated weekly collaborative problem-solving sessions for students in STEM classes
- Selected to visit Brown University to help establish a program that emulates JHU PILOT

### **Hopkins Medical Device Network**

*President*

**Baltimore, MD**

*Apr. 2013 - May 2016*

- To facilitate students applying academic theory to real-world problems, launched workshop series to equip students with skills for prototyping medical devices
- Recruited leading industry and academic experts to discuss frontiers in medical devices

### **MedHacks**

*Co-founder*

**Baltimore, MD**

*Mar. 2015 - May 2016*

- Launched event to foster cross-pollination and multidisciplinary medical innovation at JHU to better meet patient needs
- Raised \$20,000 for inaugural event in October, registered 300 attendees across six universities

### **Johns Hopkins University Alumni Student Ambassadors**

*Director of Recruitment*

**Baltimore, MD**

*Mar. 2014 - May 2016*

- To encourage greater alumni engagement with the Hopkins community, selected to represent JHU at high-profile trustee, dean, and alumni events

### **Hopkins Biotech Network**

*Staff Writer*

**Baltimore, MD**

*Sept. 2013 - May 2016*

- Authored monthly articles discussing medical technology, culture, and business practices including “The Democratization of Medicine” and “The Case for the B-Corp”

### **Soap and Suds**

*Owner/Operator*

**San Diego, CA**

*Jan. 2005 - Aug. 2009*

- Founded and operated laundry facilities that produced more than \$10,000 in revenues
- Implemented maintenance and accounting procedures to manage revenue and expenses

## COMMUNITY SERVICE

### **Hopkins Emergency Response Unit**

*Crew Member*

**Baltimore, MD**

*Feb. 2013 - May 2016*

- Trained and certified as an Emergency Medical Responder to serve student population of more than 10,000 students at the Johns Hopkins Homewood Campus
- Trained to triage and treat a myriad of conditions including seizures, automobile accidents, gunshot wounds, alcohol poisoning, athletic injuries, and mass casualty incidents

### **Baltimore City Public Schools**

*Encore Music Program Site Director*

**Baltimore, MD**

*Jan. 2013 - May 2016*

- Given inner-city students' limited exposure to fine arts, recruited, trained, and managed Johns Hopkins students to teach underprivileged students to play musical instruments
- Identified approximately 20 elementary to middle school students and provided instruments and lessons in piano, violin, cello, and guitar
- Developed and implemented music curricula customized to individual students' musical background, interests, and socioeconomic constraints

### **Baltimore City High Schools**

*MERIT Mentor*

**Baltimore, MD**

*Jan. 2013 - June 2016*

- Mentored underprivileged high school student struggling academically, financially, and emotionally
- Guided student through developing short-term and long-term goals, including study skills, SAT prep, and college admissions and scholarship application schedules
- Student gained acceptance to multiple universities with scholarship support
- Served on selection committee to recruit and select 20 new mentors to sustain program's growth

### **Alpha Epsilon Delta (AED)**

*Webmaster*

**Baltimore, MD**

*Mar. 2014 - May 2016*

- Mentored undergraduate pre-med students in academics and the pre-med application process
- Work with a patient population between the ages of 5 and 10 afflicted with a wide variety of neurological disorders at the Kennedy Krieger Institute. Interaction includes drawing, coloring, reading, card games, and conversation
- Designed and launched new website that allows members to easily obtain information on upcoming events, other members, and past events

## PRESENTATIONS

**World Healthcare Forum****The Hague, The Netherlands***Speaker**Nov. 2016*

- Delivered presentation about building hospitals in developing countries to ~50-member audience

**Rising to the Challenge (Fundraising Event for Johns Hopkins University)****San Francisco, CA***Student Panelist**May 2016*

- Discussed personal entrepreneurship projects and the developing innovation ecosystem at the university in front of live >400-member audience

**ABC Local News****Baltimore, MD***In Focus**Dec. 2014*

- Described innovative research and design required to create a medical tricorder

**Charles Street News (CSN)****Baltimore, MD***Entrepreneurship Spotlight**Sept. 2014*

- Discussed experiences as student entrepreneur utilizing Hopkins' resources

**American Telemedicine Association****Baltimore, MD***Annual Conference**May 2014*

- Showcased novel device for diagnosing diseases and monitoring vital signs

**CBS Local News****Baltimore, MD***Morning Edition**Jan. 2014*

- Interviewed about potential for digital medicine and self-diagnosis on live television

**Stanford University****Palo Alto, CA***California Institute for Regenerative Medicine**Aug. 2012*

- Poster: "Induced Pluripotent Stem Cell Assays and Drug Repurposing: Issues and Potential"

## MEDICAL SHADOWING

**Johns Hopkins Hospital***Dr. Larry William Chang, MD, MPH*

- Attended discussions about patient status, treatment plans, and social services
- Shadowed HIV specialist on rounds

**Baltimore, MD***Feb. 2015***Machado Maxillofacial Surgery***Dr. Lester Machado, MD, DDS*

- Observed multiple extractions and dental implant surgeries

**San Diego, CA***Aug. 2014***Centre Hospitalier Universitaire de Kigali***Dr. David Rosman, MD, MBA*

- Shadowed American radiologist, learned about Rwanda's healthcare challenges

**Kigali, Rwanda***Aug. 2014***Rubavu District Hospital***Violet Uzabasinga, District Coordinator for Community Health Workers*

- Shadowed community health supervisor visiting expecting mothers in remote villages in Rubavu District

**Gisenyi, Rwanda***July 2014***Scripps Green Hospital***Dr. Laura Nicholson, MD, PhD*

- Accompanied hospitalist on in-patient rounds
- Attended lecture and grand rounds

**La Jolla, CA***Aug. 2013***Scripps Green Hospital***Dr. Laura Goetz, MD, FCPS*

- Observed an emergency surgery to remove a small bowel obstruction

**La Jolla, CA***Aug. 2013***Scripps Green Hospital***Dr. Mark Takata, MD*

- Shadowed surgeon during multiple bariatric procedures using laparoscopic techniques

**La Jolla, CA***Aug. 2013*