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235 Maple Hill Road, Glencoe, IL 60022 **PMB 3303 2301 Vanderbilt Place, Nashville, TN 37235**

EDUCATION

Vanderbilt University, Nashville, TN **Expected May 2016**
Bachelor of Engineering, *Computer Engineering*
GPA: 3.55/4.00
New Trier Township High School, Winnetka, IL **June 2012**
GPA: 3.67/4.00

WORK EXPERIENCE

Product Management & Product Research, Uptake, *Intern* **May 2015-August 2015**
- Provided Product Management support for Uptake's R&D group, focusing on massively distributed embedded systems
- Analyzed and presented on organizations competing to develop Industrial Internet of Things (IIoT) platforms
- Researched and presented on adoption of web-scale, open-source technologies (Salt, Docker, Apache Mesos, Marathon, Kafka, etc.)
- Supported adoption of Agile Software Development Methodologies for teams developing data acquisition platforms

Computer Networks, Vanderbilt University, *Teaching Assistant* **Jan 2015-May 2015**
- Graded assignments on a bi-weekly basis
- Held weekly quiz & help sessions to assist struggling students with programming and network analysis assignments

Software Engineering & Business Operations, SBB Research Group, *Intern* **May 2014-August 2014**
- Responsible for physical asset management, financial asset research and analysis, and SEC compliance
- Assisted on non-confidential software engineering projects
- Responsible for the company website redesign and development of internal web applications

Shotokan Karate, Pride Dojo Inc., *Instructor* **Jan 2010-August 2012**
- Taught beginner and advance Shotokan Karate classes to students 5-60 years old
- Coached Pride Dojo Inc. students in Amateur Athletic Union state, regional, and national tournaments

RELEVANT COURSEWORK

Computer Software
- Java, C/C++, HTML, CSS, JavaScript, NodeJS, AngularJS, MongoDB, ExpressJS, Ionic Framework, Linux, Python, SQL, Hadoop, Pig, MapReduce, Memcache, GoF Software Patterns, Git, Data Structures, Computer Architecture, Human-Computer Interaction, Operating Systems, Modeling & Simulation

Computer Hardware
- Microcontrollers, Embedded Systems, Hardware Architectures, Circuits I & II, Mobile & Wireless Network, Cloud Architecture, Digital Logic Implementations

Project Management
- Talent Management & Organizational Fit, Applied Behavioral Science, Technical Writing & Communications, Fundamentals of Management, Operations & Supply Chain Management, Systems Engineering, Program & Project Management for EECE

TECHNICAL PROJECTS

Sump Pump Monitor, Rothbart Family Group**,** *Principal Engineer* **May 2014-Present**
- Designing, constructing, and testing patent-pending, internet-connected sump pump monitoring equipment

Vanderbilt MiniV, Sub-scale High altitude Rocket**,** *Field Engineer* **October 2014-April 2015**
- Assisted in design and development of Autonomous Ground Support Equipment (AGSE) for the Vanderbilt Aerospace Team

PartyQ: Crowdsourcing Music Control, Android Application**,** *Project Lead* **October 2014-Present**
- Designed, developed, and tested an application to facilitate music sharing and queue control among a group of Android clients
- Integrated Spotify API to allow client profile sharing

Vanderbilt StarCRAFT, Sub-scale High-altitude Rocket, *Field Engineer* **August 2013-April 2014**
- Developed a modular hazard-detection system using OpenCV
- Assisted in construction, maintenance, and setup of sub-scale high-altitude rocket for the Vanderbilt Aerospace Team

CAMPUS INVOLVEMENT & LEADERSHIP ROLES

Vanderbilt Aerospace Design Laboratory, Vanderbilt University, *Vice President* **Jan 2013-Present**
- Leads a team of undergraduate students to compete in the national NASA Student Launch Competition
- In charge of team web presence, flight avionics, data acquisition systems, and community outreach

Racquetball Club, Vanderbilt University, *President* **April 2015-Present**
- Facilitate learning, practice, and competition activities for club members

Phi Delta Theta, Vanderbilt University, *Active Member* **October 2013-Present**
- Active on recruitment, philanthropy, and brotherhood committees

Vanderbilt University Orientation, Vanderbilt University, *Student VUceptor* **February 2012-Present**
- Selected to be responsible for orientation of members of the Class of 2017

American Cancer Society's Relay For Life, New Trier Township High School, *Executive Board Member* **June 2011-July 2012**
- Raised $18,861.10 with the Executive Board for an American Cancer Society fundraiser