Garrett Sundin

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EDUCATION

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| Bachelor of Electrical Engineering | Graduation: 2017 May |

University of Minnesota – Twin Cities GPA: 3.1/4.0

SKILLS

* Digital Signal Processing, Analog Electronics Design, Digital Design, Wearable Technology Research
* Experienced with C Programming of PIC18LF4550 and ATmega328 embedded systems
* Proficient in MATLAB, Altium, Advanced Excel, Simulink, and Vicon Nexus Motion Capture

WORK EXPERIENCE

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| **Undergraduate Research Assistant** | November 2012 to Present |

University of Minnesota – Wearable Technology Lab

* Developed firmware with team for popSLATE 2 (written in C, tested in Python, used various debugging hardware)
* Wrote tutorials, guides, and projects for the LightBlue Bean (Arduino and BLE profiles)
* Augmented the company website to fix bugs and increase views/sales (Github, Heroku, AWS)
* Improved shipping fulfillment process (Shopify API, Liquid)

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| **Lead Designer** | September 2011 to Present |

Triangle Fraternity/To Write Love on Her Arms

* Lead a small team to design and develop PIC18LF4550 controlled trivia devices
* Implemented ZigBee in the devices for wireless control with an emphasis on low power consumption
* Used the devices for a philanthropic event with To Write Love on Her Arms to raise awareness about depression

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| **Stockroom Assistant** | September 2012 to Nov. 2012 |

University of Minnesota - Electrical and Computer Engineering Depot

* Consulted with customers about their component needs for their respective research projects to ensure progression
* Provided exceptional customer service with accurate and speedy processing of customer purchases at checkout

LEADERSHIP & VOLUNTEERING

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| **Triangle Fraternity for Engineers and Scientists** | December 2011 to Present |

Vice President Financial

* Fraternity established to cultivate high moral character and build a foundation of academic support for engineers
* Created and managed an $80,000 budget for Triangle after helping get the chapter $40,000 out of debt in one year
* Remodeled two chapter homes, created and distributed housing and parking contracts, and maintained finances for the fraternity

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| **Institute of Electrical and Electronics Engineers** | May 2012 to Present |

*System Administrator*

* Built, repaired and maintained six computers used in the IEEE student lounge
* Liaised between IEEE and the University of Minnesota’s Office of Information Technology to ensure improvements

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| **To Write Love on Her Arms-at the University of Minnesota** | December 2011 to Present |

*Vice President/Co-Founder*

* Non-profit organization dedicated to helping people struggling with depression, addiction, self-injury, and suicide
* Organized team efforts to provide students with information to get rid of the negative stigmas associated with mental illness

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| **Engineers Without Borders** | December 2010 to May 2011 |

Health and Safety Officer/Wiki Master

* Non-profit, student-led organization that develops systems to assure clean water in third-world countries
* Designed and maintained the University of Minnesota’s Engineers Without Borders wiki page

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| **University of Minnesota Campus Orchestra** | December 2010 to Present |

First Violin

* Selected to help lead an orchestra because of high levels of proficiency in certain characteristics of play
* Taken lessons and performed violin in community orchestras for 10 years