## **Matthew Vilim**

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Education	
Stanford University PhD, Electrical Eng. Fall 2016 – Present	GPA <b>4.07</b> <ul> <li>Languages, compilers, and architectures for FPGAs and reconfigurable accelerators</li> <li>Advised by Kunle Olukotun</li> </ul>
Stanford University MS, Electrical Eng. Fall 2016 – Spring 2018	GPA 3.95
UIUC BS, Computer Eng. Fall 2012 – Winter 2015	GPA <b>3.95</b> - University Honors (top 3% of College of Engineering)  - Highest Honors
Work	
<b>NVIDIA</b> GPU Verification Intern Spring and Summer 2016 Santa Clara, CA	<ul> <li>Contributed to features and performance of Volta randoms program generator</li> <li>Worked with GPU architecture team to test and verify Volta memory model</li> </ul>
NVIDIA Systems Software Intern Summers 2014, 2015 Santa Clara, CA	<ul> <li>Developer on macOS graphics drivers team</li> <li>Ported features only implemented in Windows drivers to macOS drivers</li> </ul>
Argonne (ANL) Research Intern Summers 2012, 2013 Lemont, IL	Developer on GREET (greet.es.anl.gov), a model of U.S. emissions
Entrepreneur Computer service business 2008, 2012	<ul> <li>Sole proprietor of business with 180 customers, logging over 1500 hours</li> <li>Performed services such as computer setup and maintenance, network installation</li> </ul>
<b>Prof. Kunle Olukotun</b> Stanford University Winter 2017 – Present	<ul> <li>Y. Zhang, A. Rucker, M. Vilim, et al. "Compiler-Directed Hybrid Networks for Spatial Architectures." ASPLOS, 2019. (Submitted)</li> </ul>
<b>Prof. Rakesh Kumar</b> UIUC Fall 2015	<ul> <li>Developed technique to increase Bitcoin mining profits</li> <li>M. Vilim, H. Duwe, R. Kumar, "Approximate Bitcoin Mining." DAC, 2016.</li> </ul>