

# Matthew Vilim

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## Education

### Stanford University

PhD, Electrical Eng.  
Sep 2016 – Present

- Advised by Kunle Olukotun
  - Languages, compilers, and architectures for FPGAs and reconfigurable accelerators
- GPA: **4.07**

### Stanford University

MS, Electrical Eng.  
Sep 2016 – March 2018

GPA: **3.95**

### U of I (UIUC)

BS, Computer Eng.  
Aug 2012 – Dec 2015

- Highest Honors
  - University Honors (top 3% of College of Engineering)
- GPA: **3.95**

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## Work Experience

### NVIDIA

*GPU Verification Intern*  
March 2016 – Aug 2016  
Santa Clara, CA

- Contributed to features and performance of Volta randoms program generator
- Worked with GPU architecture team to test and verify Volta memory model

### NVIDIA

*Systems Software Intern*  
Summers 2014, 2015  
Santa Clara, CA

- Developer on Mac OS X graphics drivers team
- Ported features only implemented in Windows drivers to OS X drivers

### Argonne National Laboratory (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

- Sole proprietor of business with 180 customers, logging over 1500 hours
- Performed services such as computer setup and maintenance, network installation

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## Research Experience

### Prof. Kunle Olukotun

Stanford University  
Sep 2017 – Dec 2017

- Y. Zhang, A. Rucker, **M. Vilim**, *et al.* “Compiler-Directed Hybrid Networks for Spatial Architectures.” *ASPLOS*, 2019. (Submitted)

### Prof. Rakesh Kumar

UIUC  
Fall 2015

- Developed technique to increase Bitcoin mining profits
- **M. Vilim**, H. Duwe, R. Kumar, “Approximate Bitcoin Mining.” *DAC*, 2016.