

# Philip D. Geramian

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(646) 812.1762

## SKILLS

ATPG, DFT, BIST, Verilog, VHDL, Tcl, Perl, Python, C/C++, Siemens/Mentor Tessent, Synopsis VCS, Cadence Modus, Cadence Xcelium, Cadence Genus, Cadence Virtuoso, Embedded Systems, IoT, KiCAD

## EXPERIENCE

### **Intel Corporation, Hudson, MA**

*SoC Design Engineer (ATPG Engineer)* November 2020-Present  
ATPG Engineer working on pattern generation, GLS verification, & debug for Intel's Xeon line of processors. Tester pattern miscompare debug, vmin debug, & pattern masking in post-Si. Using Siemens Tessent & Synopsis VCS. Developed and deployed in-house flow automation utilities to simplify reporting and to allow more automation in pattern generation flow used by Team. Additionally provided mentorship to interns and junior team members.

### **Cadence Design Systems, Endicott, NY**

*Lead Product Engineer* June 2017-November 2020  
R&D Product Engineer for the Modus DFT Software Solution, supporting multiple parts of the system including but not limited to: ATPG, Hier Test, DFT, & LBIST. Responsibilities include: Debugging customer test issues, making demo parts for development team use, assisting in architecture of new features, conducting field education of customers and in-house team members, & documentation updates. Customers supported include global semiconductor companies and major defense contractors.

### **Mentor Graphics, Wilsonville, OR**

*GCSS Intern* June 2015  
Developed educational training videos supporting the HyperLynx tool.

### **Syracuse University**

#### **Department of Electrical Engineering and Computer Science**

*Teaching Assistant* June 2014-May 2017  
Instructed Junior and Senior Computer Engineering Lab course students in methodology of design and usage of; FPGAs/CPLDs, microcontrollers, and Embedded Systems. Assisted in development of new lab course materials. Successfully designed & manufactured custom CPLD board for use in course.

#### **Student Centers and Programming Services**

*Sound Level 3, Lights 2, Venue Manager, & Driver* January 2012-May 2017  
Sound / Lighting technician for special events / concerts, audiences 1500+.  
Mentored and managed co-workers for sound equipment skills and facility equipment.

## EDUCATION

Syracuse University, M.S., Computer Engineering, May 2017  
Syracuse University, B.S., Computer Engineering, May 2015

## Volunteer Work

**Broome County NY Office of Emergency Services**, RACES Operator 2018 - 2021  
**Luma Projection Arts Festival**, Assistant Site Manager 2018 - 2019

## Certifications

**General Class Amateur Radio License**, FCC KC2WII