HERNAN M. PALOMBO

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EDUCATION

- Ph.D. C.S., University of South Florida,   expected 8/2018
- M.S. C.S., University of South Florida,   10/2015
  3.9 GPA
- B.S. C.S., University of West Florida,   8/2010
  3.8 GPA (Magna Cum Laude)

EXPERIENCE

Ph.D. Research   8/2013 - Present (4 years)
University of South Florida, Tampa, FL

My research is focused on applying formal methods to design and implement systems that precisely enforce security policies.

Projects/Publications:

- Runtime Monitors for Distributed Systems. *In Progress.*
- A Post-Silicon Trace Analysis Approach for System-on-Chip Protocol Debug. *Submitted to ICCD'17.*
- A Comparative Study of Formal Verification Techniques for Authentication Protocols. *Master's Thesis.* USF, 2015.
- Verification of a Vehicle Authentication Protocol. *Technical Report.* USF, 2015.
- OpenID Connect: Formal Analysis, Verification and Attacks Classification. *Technical Report.* USF, 2014.
- Model Checking Memory Consistency and Cache Coherence. *Technical Report.* USF, 2013.

Instruction   8/2013 - Present (4 years)
University of South Florida, Tampa, FL

- Developed an ability to analyze technical problems, communicate abstract ideas, and implement working solutions under the scrutiny of students and professors.
- Responsible for creating course content, delivering lectures, tutoring sessions, taking examinations and grading projects.
- Mastered time-management skills in the ever-changing and results-driven teaching and research environments.

Courses Taught:

- Computer Logic Design, Su-2015
- Data Structures, Sp-2015
- Computer Logic Design Lab, Su-2014

Assistantships:

- Program Design, Su-2017
- Cyber-Physical Systems, (Grad) Sp-2017
- Embedded Systems, (Grad) F-2016
- Operating Systems, (Grad) Sp-2016, F-2015/4
- FPGA Design (Grad), F-2015
- Computer Organization, Sp-2014/3

Software Engineer   1/2011 - 8/2013 (2 years 8 months)
Milsoft, Pensacola, FL

- Developed a unified communications server –written mostly in Java, C++, and Javascript– for automated call centers that served millions of customers through hundreds of utility companies and service providers throughout the US and the Caribbean.
- Wrote code for every layer of the system, from rich user interfaces to lower-level scripts for automation of server administration tasks.

- Designed and implemented several Java APIs for integration with existing middleware, speech synthesis and voice recognition engines.

- Reviewed other programmers code and advised modifications based on customers requests.

- Created an in-house penetration test environment and implemented PCI security compliance and system hardening for processing credit card payments.

Software Engineer Intern   1/2011 - 4/2011 (4 months)
Caliber Public Safety, Pensacola, FL

- Developed a code analysis C# library for automated testing.

- Coded batch database processing tool in C#.

Programmer, Web Developer   12/2006 - 12/2010 (4 years)
University of West Florida, Pensacola, FL

- Developed a course management system for the CS Department.

- Created the admissions application and career plan database for graduate SE program.

- Implemented a LAMP web application with a SOAP interface for graduate software engineering instruction.

- Tutored students in Java and C, SQL, networks, data structures, and algorithms.

- Maintained websites and online applications for programs in 7 different departments within the University.

References

Available upon request.