SATTANAATHAN THAYUMANAN

4000 SW 37th Blvd. APT 911, Gainesville FL – 32608 | +1 (352) 284-9712 | s.thayumanan@ufl.edu
https://www.linkedin.com/in/sattanaathan-thayumanan/ | https://sattanaathan.github.io/

OBJECTIVE

Graduate Computer Engineering student with two years of experience as Software Designer seeking a summer internship in the field of CPU/GPU/SoC/Reconfigurable Computers/ASIC, Computer systems, Software Systems Development and Autonomous systems.

EDUCATION

Master of Science, Electrical and Computer Engineering   May 2020 (Expected)

University of Florida, Gainesville, FL   GPA 3.66/4.00

Relevant Coursework: Principles of Computer Systems Design | Reconfigurable Computing | Computer Architecture | Advanced System Programing | Virtual Computers | Automotive Safety and Security

Bachelor of Technology, Electrical and Electronics Engineering   May 2016

National Institute of Technology, Trichy (NIT Trichy), India   GPA 7.20/10.00

Relevant Coursework: Operating Systems | Computer Architecture | Data structures and C++ | Microprocessor and Microcontroller VLSI | Fuzzy systems and Genetic Algorithms | Digital Electronics | Analog Electronics | Linear Integrated Circuits

PROFESSIONAL EXPERIENCE

Graduate Research Assistant   Oct 2018 – Present

ECE department, University of Florida, FL

- Working on hardware-software co-validation research targeting firmware validations and Co-operative Adaptive Cruise Control research under the guidance of Professor Dr. Sandip Ray

Software Designer   July 2016 – July 2018

Alstom Transport, Bangalore, India

- Collaborated with designers in developing embedded systems software for ERTMS by applying key principles of computer engineering and embedded systems at ALSTOM Belgium.
- Implemented enhancements in Alstom specific product by applying key principles of system design.
- Delivered software solutions consistent with the product roadmap and released plan milestones.
- Key learning: Software Architecture | Software development and verification process | Storage Area Network

Train Control Validation Intern   May 2015 – July 2015

Alstom Transport, Bangalore, India

- Designed and developed Simulation of Low Voltage Control Logics, implementing the train control system design.
- Key learning: ControlBuild | NI LabVIEW | NI PXI cards | Train control

RESEARCH EXPERIENCE

ROBOTIC ARM EQUIPPED SOLAR POWERED HYBRID ELECTRIC WHEEL CHAIR   Aug. 2014 – Mar. 2015

TEXAS INSTRUMENT INNOVATION CHALLENGE INDIA DESIGN CONTEST 2015

- Designed and developed of embedded system for dual robotic arm.
- Designed and fabricated of power controller for wheelchair with payload of 120kg.
- Semifinalists | Top 86 teams out of 1209 | TIIC IDC – 2015

SMART WATCH   Jan. 2014 – Mar. 2014

SANGAM – PRAGYAN 2014

- Designed and fabricated of Smart Watch under the budget of $30.
- Designed and developed of Android UI interfacing with MSP430 controllers via Bluetooth.
- 2nd runner up in circuital category at SANGAM – PRAGYAN 2014.

SKILLS

Programming Languages: JAVA | C# | VHDL | Python | Lua | C/C++ | Embedded C | MATLAB | HTML | XML
Simulation/Design tools: JasperGold | Android Studio | Vivaldo | Modelsim | Visual Studio | Eclipse | Delphi

LEADERSHIP AND INVOLVEMENT

Cofounder and Lead Volunteer – HumaNITTy, Trichy, India   Sep. 2014 – July 2018

Twin national level award winning philanthropy movement. As a lead volunteer, guided fellow students in events of Joy of Giving.