

**Stephan Hennion**

Senior Software Engineer with development and architecture experience across the entire modern stack, currently focused on test-driven development in the Embedded Linux space

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**SKILLS:****Current Proficient Languages:** C++ 17

- Experience with bash, Python, GDScript, GLSL, Swift, Obj-C, C, Java, PostgreSQL

**Frameworks/APIs:** CATCH C++ Test Library, iOS SDK, Godot

**SoCs:** Telit LE910CX

**Platforms/Tools:** Mac OSX, Linux, Windows, git, CLI, Xcode, VSCode, VIM

**WORK EXPERIENCE:****ADT Senior Firmware Engineer** (June 2020 – Present)

- Responsible for integration of Telit LE910C1 module with new product, including but not limited to initial devkit testing, design and implementation of the end solution, managing third party communication and progress, as well as technical aspects of the telecomm certification processes

- Active member in greenfield development effort of Embedded Linux application for Home Security Gateway, deep involvement in overall development and architectural decisions

*Senior iOS Developer* (May 2019 – June 2020)

- Rewrote legacy components in pursuit of Obj-C to Swift conversion, as well as phasing out of deprecated or unsupported libraries

- Integrated primary iOS app with third party BLE hardware

**Saucon Technologies Senior Software Engineer** (March 2011 – May 2019)

- Developed and maintained extensive iOS app portfolio, with apps supporting real-time transportation schedule mapping, video, and proprietary hardware integration via BLE

- Back-end enhancement and support in a stack utilizing Java Spring, PostgreSQL, and MQTT via RabbitMQ

- Firmware development on custom hardware utilizing Nordic nRF5\* series SoCs

**INDEPENDENT PROJECTS:****Game Development**

- Designed, implemented, and released *Chromovis*, a puzzle game for the iOS

- Experience with Godot, Blender, and the broader game development pipeline

**RESEARCH:**

Akshaye Dhawan, Neal Shukla, Cassandra Chapman, Stephan Hennion, “*Fault-Tolerant Clustering in Dense Wireless Sensor Networks*”, In 2<sup>nd</sup> International Workshop on Advances in Networking and Computing (**WANC'11**), Osaka, Japan, November 2011

**EDUCATION:**

Syracuse University,

**M.S. in Computer Science** Dec 2020

3.9 GPA

Ursinus College,

**B.S. in Computer Science and Mathematics** May 2010