

Dylan "Haifisch" Laws  
iamhaifisch@gmail.com  
+1 (775) 741-0726  
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## Technical Expertise

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### Languages

- C, Objective-C, C++, C#, Java, 64bit ARM Assembly, PHP, HTML, CSS, JavaScript, NodeJS, Bash, Python, VScript

### Development Platform, Tools, and IDEs

- Unix, Linux, Ubuntu Server environments, macOS, iOS, Android, Windows
- Xcode, Visual Studio, Android Studio, IDA Pro, GNU toolchain, LLVM toolchain, Git / SVN
- Autodesk EAGLE, KiCAD, Autodesk 3ds Max
- Valve Source SDK, Hammer, VTFEdit, VIDE

### Electrical Engineering

- PCB design reversal, in-house prototype production, oscilloscope instrumentation, digital logic analysis

### Cybersecurity

- Edwards-Curve, Elliptic-Curve, AES, Poly1305, RSA, SHA2, Keccak
  - P2P Networking Design
  - Developing tactics, techniques, and procedures (TTPs)
  - Malicious code reversal
  - Identifying advanced social engineering attacks
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## Experience

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### October 2018 – February 2019: Blockchains LLC

Sole iOS Developer.

### September 2016 – 2017: Sun Tzu Security LLC

Leading the development of an enterprise-grade messaging service with hardware based key storage.

### 2010 - 2019: Freelance iOS Developer

#### Independent Projects

- Codie -- QR code utility application that focuses on a simple, clean, Ad-free interface.
- ZenBTC -- Collaboration with a New York based UX/UI designer, brings simplicity to Bitcoin price statistics.
- BitSmith -- Android application developed to breakout basic crypto and other data manipulation functions to a simple interface. Implemented RSA, 25519, SHA2, SHA3 and MD5 operations.
- Enclave Messenger
  - iOS / OS X encrypted messaging application that involved several types of encryption and critical thinking of data processing and network security along with a custom external hardware security module for cryptographic operations.

### June 2014 – 2015: Pinnocio Inc.

Engineered and maintained the iOS Pinoccio HQ application that integrates with the Pinoccio Scout over both Wi-Fi and Bluetooth Low Energy (BLE). Assisted in building a Scout mesh network in downtown Reno.

### June 2012 – August 2015: HASHBANG Productions.

Developed a handful of "tweaks" for jailbroken iOS devices. RePower redesigned the classic iPhone power down screen, adding a few more sliders allowing for a quick reboot and system information.

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## Hackathon Projects

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- Hack4Reno – CityPie (<https://github.com/hack4reno2013/citypie>)  
CityPie was built for a startup event named Hack4Reno2013. Our team consisted of a total of four people, the startup project was ready for presentation within the allotted 12 hours.
  - Startup Weekend Reno – HealthGrub  
Easily find and order diet specific meals for delivery in your area.
  - Hack4Reno – Towner  
Gamifying city activities and rewarding incentives such as discount codes for local company products.
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## School

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**High School:** Nevada Virtual Academy in Reno, NV