

# Jimmy Hartzell

Systems Programmer

Systems programmer, Rustacean, and blogger. My background in C++ and Haskell, along with a deep life-long interest in how computers work at a deep level have made Rust a perfect match for me.

See my blog: <https://www.thecodedmessage.com/>

## Work History

- 2021-05  
- present
- Embedded Linux Software Developer**  
*Savant Systems, Inc, Remote*
- Develop & maintain Rust codebase for embedded Linux built using Yocto
  - Contributed to cargo-bitbake open source project for better Yocto support for Rust
  - Wrote `serde_dbus`, a new implementation of the Dbus serialization format for the `serde` framework
  - Re-write embedded Linux software from Swift into Rust
  - Wrote usermode spidev-based driver for Atmel energy meter
- 2018-03  
- 2021-05
- Software Development Consultant**  
*Obsidian Systems, LLC, New York, NY*
- Worked on Incremental View, a research project for incremental database queries in Haskell
  - Support for two new cryptocurrencies in C for Ledger Nano S (an embedded platform with 4K of RAM)
  - Haskell front-end development in Reflex
- 2013-06  
- 2018-03
- Software Developer**  
*Tower Research, LLC, New York, NY*
- Lead training instructor (2016-2018): developed and taught full-time technical curriculum for new hires in US in India
    - Wrote internal textbook
    - Covered low-latency network programming in modern C++, operating system design, and engineering principles in a systems programming environment
  - FX Development: Maintained low-latency C++ codebase to connect to many FX exchanges and brokers for order entry, market data, drop copy, and STP protocols
  - Risk team: Wrote a new high-performance logging system
  - Risk team: Led a small team to add new trade reconciliation systems to comply with EU regulations
- 2011-02  
- 2013-03
- Infrastructure Developer**  
*Moat, Inc., New York, NY*
- Led a 3-member team for deployment and server discovery

## Education

**Computer Science, Bachelors**  
*Cornell University, Ithaca, NY*

## Personal Info

### Email

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## Skills

Rust

C++

Haskell