

Edward Hurtig

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EDUCATION

Northeastern University, College of Computer and Information Science Boston, MA.

Bachelor of Science in Computer Science. Concentration in Cybersecurity. (GPA 3.5)

Honors: Deans List Fall 2013, Fall 2016

Activities: SpaceX Hyperloop Pod Competitions 2016-2017, ACM, NU Hacks

TECHNOLOGIES

Programming Languages / DSLs:

Core: C, Swift, Python, TwinCAT Structured Text

Familiar: PHP, Ruby, Java, C++, Go, JS, HTML, CSS, SQL

Software & Operating Systems:

UNIX/POSIX, Git, Chef, MySQL, Filemaker, macOS, Ubuntu, CentOS, Docker, VMWare, AWS

Hardware

Large scale EtherCAT, Trimble Surveying, Beckhoff IO Systems, ABB and KEB VFDs & Soft Starters, IOLink, CANOpen, 4-20mA IO, 24V Industrial IO, Mining Power Substations (~13.2kV)

WORK EXPERIENCE

THE BORING COMPANY *Senior Software Engineer*

Nov. 2021 - PRESENT

- Built a time-series telemetry pipeline to support multiple concurrent mining operations (> 100k samples/sec)
- Responsible for Prufrock 2 overall controls system and software stack (> 1000 IOs).
- Responsible for TBM Operator interface as well as interfaces used to commission and diagnose subsystems.
- Software RE (Responsible Engineer) for multiple subsystems incl. Propulsion, Steering, HPU, Gantries, Nav
- Implemented Safety System driven by Beckhoff's TwinSAFE Safety IO system
- Commissioned surveying system and executed surveys with Trimble hardware for PT4 and PT5 tunnels
- Solved problems blocking operations in real-time on-site (mechanical up through software)

APPLE CORE DARWIN *Core OS Software Engineer* (2 CoOps + Full Time)

2016 - Oct. 2021

- Apple Silicon (M1) UNIX Conformance & Certification for macOS Big Sur
- Automation of several high-impact workloads to enable CI/CD workflows and catch regressions early.
- Supported kernel development workflows and hardware bring-up with custom automation tools
- Designed and implemented an export interface for LLVM profiling data.
- Integrated protocols that enabled reliable data transfer over unreliable mediums to eliminate errors.

EVERTRUE *DevOps Engineer* (Co-Op) 2015

- Developed chef cookbooks to provision Spark, Jenkins, NTP, and Logstash servers
- Researched, provisioned, and implemented Apache Mesos cluster with Docker support
- Implemented a centralized and horizontally scalable logging cluster provisioned by chef

TOWN OF SUDBURY INFORMATION SYSTEMS *Lead Developer* (Part-Time)

- Developed municipal CMS System that runs the next generation of Sudbury's Web Services.

- Consulted on the town's technology infrastructure including core server systems
- Brought Ubuntu Linux to power new projects, including Jira, Jenkins, NGINX & Selenium
- Trained interns for Web Development, Computer Management, and Deployment tasks

LINCOLN-SUDBURY REG. HIGH SCHOOL *A/V Specialist*

- Oversaw all aspects of theatric events including stage lights, sound, and house management
- Worked with event planners and hosts to fill their technical event management needs

PROJECTS

OPENLOOP & PARADIGM HYPERLOOP *Team Co-Lead, Software & Controls Lead*

Designed and implemented a RealTime controls system for a prototype Hyperloop pod
 Influenced mechanical & electrical design to improve reliability, testability, safety, and feasibility
 Won second place at the Summer 2017 competition

CCIS OPEN CLOUD *CCIS Crew Project - Project lead*

OpenStack Cloud for Northeastern Students, Faculty, and Staff.

PERSONAL VMWARE LAB *Personal Project - Systems Administration & DevOps*

Windows/Linux Cluster, DNS, Active Directory, Chef, Full Web Stack, MySQL, SSH Tunneling

THE WORDPRESS PROJECT *Volunteer Contributor*

Patches in Wordpress Core, Contributions to WordPress REST API

CCIS UNDERGRADUATE EXPERIMENTAL SYSTEMS GROUP (CREW) *Officer*

Led Digital Display System Server Project & The CCIS Open Cloud Project.