Phone: 289-803-2292 Email: mail@robfors.com GitHub: @robfors LinkedIn: https://linkedin.com/in/robfors

EDUCATION

Engineering Systems & Computing University of Guelph - Guelph, ON

TECHNICAL SKILLS

Programming

- Ruby
 - Preferred language
 - Often used for automating monotonous tasks, such as organizing emails and files
 - Used for developing website backends
- (
 - linked lists, pointers, strucks, stacks, trees, gdb
- C++
 - Multiplayer checkers game (http server, web GUI)
 - Teamed up to make a multiplayer 3D computer game
- Python
 - Developed a website to search and remember favorite articles from The New York Times
- Web Development
 - CSS, HTML5, JavaScript, SEO standards
 - robfors.com, excitechnic.com
 - ESRuby: a framework that gets Ruby code running in the browser

Server Administration

- 8 years of experience working with Linux systems
- Experience with: Bind9, Postfix, Dovecot, Apache, Lighttpd, nginx, OpenVPN, VirtualBox, Asterisk
- TCP, UDP, IP, ARP

Computer Hardware

 Built many desktop and server computers, taking advantage of virtualization to keep hardware costs down when I can

Security Analysis

 Tools used: airodump-ng, coWPAtty, cain & abel, wireshark, wifi honeypot, reaver Rob Fors Page 2

Computer Engineering

- SolidWorks (modelling, animation)
 - Deigned a 3D printed toy duck in a group project (animation available at excitechnic.com)
- Communication protocols including: SPI, TTL/serial, I²C
- μC/OS real-time operating system
- ARM assembly language
- Control Theory
 - Built a controller for a Maglev system
- Arduino Microcontroller
 - Library for communication with Xantrex Grid Tie Solar Inverters
 - Electronic door lock
 - Nut sorting machine
 - · Remote controlled snow plow

WORK EXPERIENCE

- Microfit solar installation
 - Assisted installation of multiple 10KW solar power projects
 - Developed and implemented solar data acquisition system
- Litens Automotive (Summer 2014)
 - Worked as part of a team to migrate documents from an obsolete database to a CompliantPro database.
 - Developed a Ruby library to streamline the task of document migration.
 It abstracted a lot of the functionality of the web based document
 manager, CompliantPro. This allowed a Ruby script to modify a large
 quantity of documents without constant user interaction.
 - Developed an inventory form for an SQL database
 - Made JavaScript tools to improve the CompliantPro user experience
- Landscaper (Summer 2015, 2016)
 - Maintained a large property
 Worked independently cutting and trimming grass, planting trees, maintaining equipment
- King Day Camp (Summer 2017)
 - Mountain Bike Instructor: Introduced kids to the sport of mountain biking.
 - Mentoring and teaching new skills and supervising them on bike trails.
- Presently developing an innovative web stack to build user friendly web services. I am using this stack to create a startup company selling domains.

HOBBIES

- Cycling
 - Completed a few multi-day tours including a recent ride to Michigan.
 - Complete regular 200km endurance rides to Parry Sound.
- Skiing
 - Expert skier, enjoy hitting the slopes every weekend and head out west once a year.