Maciej**Lis**

computer science student / human

about

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Canada

me@maciejlis.net
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github://mlisbit

languages

English & Polish

programming

JavaScript
(websocket.io, node.js,
kinetic.js, JQuery,
Express)
MongoDB & MySQL
CSS3 & HTML5
Python
(Django, PyQt4,
PyGTK)
Java
(Swing)
C & Bash

hackathons attended

Windows 8 pure
Imagination
Linkedin toronto
hackday
NASA Space Apps
Challenge
Next 36 Wearable
Computing Hackathon
UofT Hacks
Yale Hacks 2013

introduction

I'm always looking for neat problems to solve, which leads me to focus on a little of everything; web development, game development, hardware hacking, and robotics. Web development is something I find myself working on a lot lately, doing freelance work with friends when the opportunity presents itself, or just for fun. I'm very comfortable in GNU/Linux and have been using it exclusively for over 4 years as my primary operating system.

Over the summer, I've traveled the US with the York University Rover Team: competing in both the NASA Lunabotics Mining Competition and University Rover challenge - which proved to be one of the greatest experiences ever! and ended up walking away with 8th place at the NASA Lunabotics Mining Competition.

I take every opportunity to attend a hackathon, seminar or tech meetup, and socialize with other likeminded individuals. My hobbies include biking and running.

education

since 2011   **BSc** Computer Science   expected graduation 2015
York University, Toronto, ON

university activities

since 2013   **Computer Science Club**   Technical executive
- Part of core team re-establishing the 'Computing Students Hub' at York.
- Developed mini social networking site around club, allowing users to create accounts, edit profiles, comment on events, confirm whether or not they're going and more! Visit it at www.cshub.ca.
- We organize hackathons, seminars and tutorials for members.

2011-2013   **York University Rover Team**   Senior/travelling development team member
- Competing in the NASA Lunabotics Mining Competition (Florida), University Rover Challenge (Utah), and Innovation Nation 2013 (Hamilton, Ontario).
- Developed tilt sensor widget for driver GUI
- 'Built' and set-up 900mhz router for long distance communication with Rover.
- Developed "plug'n automatically stream" video daemon for On Board Computer, for hassle freevideo streaming.
- Compiling/testing various applications. (GStreamer, Robot OS, Linux images, Chilli project)
- Designed and developed team webpage with a group of 2 other friends. Visit it at www.yuroverteam.com.
- Manage and set up team servers and wiki.

work experience

since 2013	**Freelance Web Developer**	

- Worked with clients to create personalized web applications for their business.

2013	**University Information Technology**	York University, Toronto, ON

- Assisting York University faculty, staff and students resolve issues with accounts.
- Provide technical assistance with computing devices and networks.
- Filing tickets with Remedy.

since 2009	**Retail and kitchen jobs**	TJX, HBC, and Rovers Pub

- Washing dishes and waiting tables at The Rovers Pub. Done now.
- Customer Service at The Bay HBC. Done now.
- Cashier at Winners TJX.

projects

2013	**QRi-Fi**	Yale hackathon hack

Connect to Wi-Fi networks easily by scanning a QR code with your android device, than place your phone screen in front of your computer webcam, and connect on there as well. Takes seconds to connect hundreds of people to the network on all devices, sparing users the trouble of having to type out all the credentials.
Built using Java, Android SDK, Python, PyGTK, and zBar

2013	**at.me**	UofT hackathon hack

Turning humans into ATM's. As a user with cash, you are free to log in, and register as an ATM. Users looking for cash can view 'ATMs' in real time around them and organize a meet up through the application, allowing you to make a transaction through a third party API, like: Venmo, or Square.
Built using Node and websockets.

2013	**CSHUB mini social networking site**	Computer Science Club

Designed, built, and deployed CSHUB site. Users are free to signup, create accounts, edit profiles, comment on events, confirm whether or not they're going, and earn badges! Admins may create new events, notifications, manage home page images, and edit user accounts. Visit it at www.cshub.ca.
Built in Django, Bootflat and PureCSS

2013	**Wander Tower Defence**	Personal project

Tower defense game, highly customizable, allowing users to create their own levels, waves, and towers.
Built using Python and PyQt.

2013	**Red marble**	NASA Space Apps Challenge Hack

Developed during the NASA Spaceapps Challenge, the world's largest hackathon. The challenge was to creatively represent what weather is like on Mars. The game features an environment that reflects, simulates, and directly represents the weather patterns of Mars. The user must control a rover to build structures, mine, and research in hopes of colonizing Mars, meanwhile surviving the elements.
Built using Python and PyQt.

2013	**PixPocket**	Linkedin Hackathon Hack

Web application providing users an intuitive and easy-to-use engine for transforming their own design into a printable template for a paper wallet.
Built using HTML, CSS, JS, kinetic.js

2013	**Spider Streamer**	York University Rover Team

Used during the University Rover Challenge, it is a daemon sitting on the On Board Computer monitoring new devices connected. Automatically sets up rtsp server, if device is a webcam, allowing for easy Plug'n'Play use. Safely closes ports on removal.
Built using python, C, udev, and GStreamer

2013	**900Mhz Router**	York University Rover Team

The challenge was to communicate with a robot over a long distance using 900Mhz, cheapest solution was to make a router. Had to set up a debian image on an ALIX board, set up iptables for package forwarding, find required drivers, compile drivers, test, and create start up scripts.
Required compiling programs from source, interfacing with router-computer strictly through terminal over serial, a lot of research and Bash

2012	**XNAT.org Windows 8 app**	Windows 8 Pure Imagination Hackathon Hack

Created an intuitive frontend for the site
Built using HTML5, CSS3, and JavaScript.

awards and achievements

- 8th place at the 2013 NASA Lunabotics mining competition.
  York University Rover Team Member

- 1st place at the 2012 University Rover Challenge.
  York University Rover Team Member

- Best Use of Financial API at University of Toronto 2013 Hackathon. Presented by Orbis.
  at.me project

- Most Creative Service App at University of Toronto 2013 Hackathon. Presented by Microsoft.
  at.me project

- Finalist at Linkedin Toronto Hackday 2013.
  PixPocket project

References available upon request. Many of the projects mentioned may be found on either my Github, or personal site.