Luke Banicevic

Software Engineer

Location: Willoughby Sydney, NSW
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TechnicalSkills

Languages:	*C, JavaScript, HTML5, CSS3, Python, PostgreSQL*
Technologies:	*ReactJs, Bootstrap, CAN Networks*
Version Control:	*Git, Bitbucket*

Experience

Chess Web App

Based on the classic Chess game, this application was designed in raw JavaScript (no libraries). It manipulates DOM elements to output the app on top of an HTML grid element.

Relies on both event handling and the use of objects.

CAN Bus Drive Node

A LPC Embedded processor designed for vehicle drive control of UNSW Sunswift's solar vehicle. Firmware written in C. Built and loaded onto embedded processor using command line utility written in Python.

Relies on custom libraries, electronics debugging and troubleshooting.

Social Network Analyser

Command line program which analyses the structure of a social network using Breadth First Search, Dijkstra's Algorithm and Hierachial Agglomerative Clustering. Written in C.

Relies on data structures including Graphs, Priority Queues and Binary Search Trees.

Invoice Automator

Utlity using the Google Calendar API and xlwriter Python library to automate my workflow, saving me up to 3 hours worth of work per fortnight as a programming tutor.

Generates an excel spreadsheet documenting invoice information including client names, session dates and pricing.

Education

University of New South Wales	*Engineering*	*Computer Science and Mechatronics*

ExtracurricularActivities

- Secondary and Primary School Educator - Web and Game Development.
- Undergraduate Embedded Systems Engineer – UNSW Sunswift, world record holder in solar car racing.
- Service Team Member - Coles Group.
- Language proficiency - Croatian.