

Mr Joshua Wilkosz MC.Eng. B.Eng. melb

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area: Boston, MA

Core Languages
Java, C#, and JS

Frameworks
Java EE 7
Angular2
.NET

RMDB
MySQL
MSSQL

Contract

Software | Niugini Helicopters

2016-Current

Continuous feature development and integration of a central business platform, targeted at managing helicopters, resources, and most importantly time. The platform consists of:

- JSON RESTful web service
- Angular UI

Infrastructure: Google Cloud Compute, Glassfish, and Google Cloud SQL

Technologies: Java EE 7, Angular2, and MySQL 5.7

Git: <https://github.com/wilkosz/Aviation>

Experience

Software Engineer | Premier Technologies

Oct15-Mar17

Premier is a PCIDSS level 1 provider specializing in payment services for merchants and banks on an international level. The role included engineering services and products which were highly available, scalable, and secure. Core Projects included:

- API service integrations with clients, and vendors.
- Dashboard Platform which allowed for more effective and efficient servicing of clients.

Co-Founder/Developer | Oshii Digital | <http://oshiidigital.com>

Jan13-July15

Engineering software solutions for businesses and clients. The company focused on website and application solutions, including:

- Integrations with medical management system Appointuit.
- Front-end and back-end engineering solutions.
- Digital marketing strategies.

Education

Master of Engineering (Mechatronics) | The University Of Melbourne

2013-2015

Commercialization accolade for faculty graduation project

2014

Development of an automated camera orientation system (gimbal) for aerial vehicles. The project leveraged GPS based methods for positioning and localization, while focusing on delivery of a minimal viable product.

Bachelor of Engineering (Mechanical) | The University Of Melbourne

2009-2013

Top accolade for faculty graduation project

2012

Development of an aerial vehicle platform from an industry Client in collaboration with the University. The Client was primarily focused on mapping and image acquisition of building structures and required a platform for their Light Detection And Ranging (LiDAR) device.

Other Experience

Unmanned Aerial Vehicle (UAV) Cinematography Automation | The University Of Melbourne

2014-2015

Developed an automated following cinematography system aimed at action sports and UAV photography. The main focus was to reduce/remove human error in aerial photography. The result was a land-based UAV prototype, where the camera system automatically followed a singular Point Of interest (POI).

Robotic Arm Design | The University Of Melbourne

2014

Design and build of a 7 Degree Of Freedom robotic arm to be used by an Architecture Client to represent an ant hive ecosystem. The Client used the robotic arm to work in an A4 envelope to pick and place small objects.

Unmanned Aerial Vehicle (UAV) Cinematography Platform | The University Of Melbourne

2012

Designed and developed a UAV cinematography platform for a University associate corporation to help meet their business goals. The final product consisted of an octocopter which could carry and maneuver the Client's 6Kg Light Detection and Radar (LiDAR) camera. The Client leveraged the product for mapping and surveying of building infrastructure.

Engineering Internship | Iluka Resources Limited

Dec11-Mar12

Working within both Engineering and Maintenance sectors of the business to prototype and build solutions, and workshop process flows for their production line.