Marko Jurisic

CO- OP ELECTRICAL ENGINEERING STUDENT

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+1 (236)-862-4959
LinkedIn Profile
Github Account
My Online Portfolio

EDUCATION

University of British Colombia 09/2018-12/2022
BASc Electrical Engineering
Relevant Achievements: *Electrical Engineering Design Studio "**Best Design**", "**Best Project**", and "**Best Software Solution**"*

SKILLS

Programming/Scripting Languages: *C, C++, Arduino, Python, Verilog, Excel, MATLAB, Linux (Basic)*
Mechanical Tools: *Solidworks, Solidworks Visualize, Altium designer*, *Fusion 360*, *Onshape, Ultimaker Cura, 3D printing*

EXPERIENCE

Co-Captain *Vancouver, BC, 05/2020-Present*
UBC Unmanned Aircraft Systems
- Leading a team of 65 students towards the completion of 5 parallel yearlong projects, including two large autonomous quadcopters, a fixed wing communications relay aircraft, and two unmanned ground rovers
- Handling the maintenance of 3 existing aircraft, 2 autonomous rovers and 3D printing facilities
- Designing the mechanical and software systems for an autonomous rover and payload deployment system
- Successfully doubled our social media following in the space of 4 months through targeted media campaigning
- Managing the acquisition, expenditure and growth of a budget of 40000CAD
- Optimizing team work flows to increase productivity by 2x, as measured by historical deadline completion
- Building a platform for students to grow, including successful sponsorship for 5000CAD worth of professional certifications and drone pilot licensing

Payload Project Manager *Vancouver, BC, 03/2019-05/2020*
UBC Unmanned Aircraft Systems
- Led a team of 12 people to develop software in C++ that autonomously drives a rover to a specified location using a GPS and compass, at a speed of 25cm/s
- Designed and programmed an electrical winch using a PID controller written in C++ to deploy a rover in under 30 seconds from an altitude of 30 meters
- Spearheaded the mechanical design and assembly of a 700g self-balancing two wheeled rovers, capable of delivering a 500g package autonomously
- Guided rendering efforts of mechanical designs using Solidworks Photoview 360
- Oversaw a strict budget of 5000CAD and hard deadlines over a yearlong project
- Engaged in bi-weekly cross team talks with the Aircraft sub-team to ensure the smooth integration of projects

Administrator *Vancouver, BC, 01/2019-05/2020*
UBC Unmanned Aircraft Systems
- Initiated and maintained crowdfunding, marketing and sponsorship campaigns to build a total budget of 60000 CAD over 2 years
- Co-wrote and reviewed detailed end of project reports, with our final report scoring 9th in the biggest nationwide competition
- Participated in team discussions on large purchases and general team direction

Hardware Engineer *Vancouver, BC, 09/2018-03/2019*
UBC Unmanned Aircraft Systems
- Designed and 3D printed components such as one axis gimbals, circuit cases, gears and antenna mounts
- Managed the installation of these components onto an industry standard 1500mm drone
- Assembled, maintained and upgraded of the team's 3D printers