

## Education

2016.01 - present	<b>Bachelor of Applied Sciences   Simon Fraser University, Surrey, BC</b> <ul style="list-style-type: none"><li>Mechatronic Systems Engineering</li></ul>
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## Technical Projects

2018.03 - 2018.06	<b>Power Converter Circuit Design</b> <i>Power Electronics</i> <ul style="list-style-type: none"><li>Simulated, built and tested a Buck Converter circuit to satisfy a design specification.</li><li>Analyzed a Single-Phase and Three-Phase diode rectifier with purely resistive and inductive load.</li><li>Examined a Single-Phase full bridge inverter’s operating principle by controlling the switching devices with a square wave and PWM input signal.</li></ul>
2016.09 - 2018.04	<b>Analog Circuit Design</b> <i>Electronics Engineering</i> <ul style="list-style-type: none"><li>Investigated half and full wave rectifiers to improve comprehension of how an AC source be utilized to create a DC output.</li><li>Analyzed various BJT and MOSFET circuits to comprehend their capacities as controlled current sources.</li><li>Soldered SMDs and through-hole components on a PCB.</li></ul>
2018.09 - 2018.12	<b>DC Motor Controller</b> <i>Embedded Systems Engineering</i> <ul style="list-style-type: none"><li>Investigated open-source ARM microcontroller projects to understand implementation of ADC, PWM signal and reading encoder values</li><li>Designed circuits for fan, potentiometer and PWM output to control the speed of motor.</li><li>Programmed TIVA-series ARM Cortex-M (TM4C123GH6PM) using online resources to read motor RPM using ADC, and implement PWM to change motor speed.</li></ul>
2016.05 - 2016.06	<b>Compensator Design</b> <i>Control Systems Engineering</i> <ul style="list-style-type: none"><li>Analyzed the correlation between type and steady state error of transfer function of a system.</li><li>Examined the effect of Proportional, Derivative, and Integral controller on the response of a system.</li></ul>
2016.01 - 2017.04	<b>Programming</b> <i>Software Engineering</i> <ul style="list-style-type: none"><li>Designed a C++ program that accepts 2 client inputs in two’s complement, and outputs their sum in two’s complement.</li><li>Compiled a self-written String class in C++ to understand the inbuilt library String class.</li><li>Compiled a game in C++ that exhibited complete understanding of Object-Oriented programming.</li></ul>

## Engineering Skills

Breadboard Circuit Design - Electronic and Electric Circuits	<div><div></div><div></div><div></div><div></div><div></div></div> Advanced
Electronic circuit component selection	<div><div></div><div></div><div></div><div></div><div></div></div> Intermediate
Exprience with Oscilloscope and Function Generator	<div><div></div><div></div><div></div><div></div><div></div></div> Intermediate
Microsoft Office skills - Excel, Word, Powerpoint, Outlook	<div><div></div><div></div><div></div><div></div><div></div></div> Advanced
Experience with Design Softwares - SolidWorks, LTspice	<div><div></div><div></div><div></div><div></div><div></div></div> Intermediate
C++ programming skills	<div><div></div><div></div><div></div><div></div><div></div></div> Intermediate
Python programming skills	<div><div></div><div></div><div></div><div></div><div></div></div> Intermediate
LabView programming skills	<div><div></div><div></div><div></div><div></div><div></div></div> Intermediate
Knowledge of Sensors and Actuators	<div><div></div><div></div><div></div><div></div><div></div></div> Intermediate
Experience with Micrcontrollers	<div><div></div><div></div><div></div><div></div><div></div></div> Intermediate
Experience with OS - Microsoft and Linux	<div><div></div><div></div><div></div><div></div><div></div></div> Advanced
Soldering skills	<div><div></div><div></div><div></div><div></div><div></div></div> Intermediate

2017.09 - 2017.12	<b>Frame Stress Analysis</b> <i>Mechanical Engineering</i> <ul style="list-style-type: none"> <li>Analyzed Truss, Truss-Beam bicycle frames using concepts learnt in Statics/Strength of Materials course.</li> <li>Analyzed Truss, Truss-Beam bicycle frames exploiting Finite Element Analysis.</li> <li>Administrated documentation of the project.</li> </ul>
2017.09 - 2017.09	<b>Material Selection: Turbine Fan Blade</b> <i>Material Engineering</i> <ul style="list-style-type: none"> <li>Analyzed an ideal fan blade's operational conditions and objectives.</li> <li>Exploited CES-Edupack with required constraints and graphed top ideal materials for the fan blade.</li> <li>Produced complete documentation of the methodology used and the results obtained.</li> </ul>

## Work Experience

2018.03 - present	<b>Tutor Doctor   Fraser Valley, Surrey, BC</b> <i>Tutor</i> <ul style="list-style-type: none"> <li>Resolved high school Physics and Mathematics conceptual problems by facilitating 1-on-1 sessions.</li> </ul>
2018.09 - present	<b>VolleyballBC   Barnet Hwy, Burnaby, BC</b> <i>Facility Attendant</i> <ul style="list-style-type: none"> <li>Provided general information and related customer services assistance for in-person inquiries.</li> <li>Processed payments for facility admissions and facility rentals.</li> <li>Performed facility attendant duties including minor janitorial and maintenance activities as required by operational needs.</li> </ul>
2017.09 - 2018.09	<b>Team Guardian   SFU Aerospace</b> <i>Software Developer</i> <ul style="list-style-type: none"> <li>Compiled a bash script to download dependencies from git repository for new ground stations.</li> <li>Administrated and compiled client HTTPS file transfer between drone and ground station.</li> </ul>
2017.06 - 2017	<b>Wesgar Inc.   Port Coquitlam BC</b> <i>Assembly Line Worker</i> <ul style="list-style-type: none"> <li>Interpreted blueprints and assembled parts.</li> <li>Operated tools such as Rivet gun and driller</li> </ul>

## Awards and Recognitions

2016.06	Honors Roll Award   Fraser International College, Burnaby BC
2014.06	Oryx Award   Sri Lankan School Muscat, Sultanate of Oman
2018.01	NDG Linux Unhatched   Cisco Networking Academy

## Soft Skills

Leadership	<div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> Advanced
Communication skills	<div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> Advanced
Ability to work independently	<div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> Advanced
Critical thinking	<div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> Advanced
Creativity	<div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> Advanced

## Languages

English	<div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>
Urdu	<div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>
Pashto	<div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>
Hindi	<div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>
Arabic	<div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>

## Interests

Documentaries
Fitness
Billiards
Basketball
Self-directed learning
Internet Of Things

## References

LinkedIn
linkedin.com/in/junaidjawedkhan