

Jacob Barnuevo

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EDUCATION

University of Ottawa	2012-2016
<ul style="list-style-type: none">BASc in Electrical Engineering (Option: Power and Sustainable Energy)<i>Awards:</i> George Armitage Outstanding Student Branch Award	Ottawa, ON
St. Thomas Aquinas Catholic Secondary School	2008-2012
<ul style="list-style-type: none">Received bilingual certificate for the French language<i>Awards:</i> Catholic Leadership Award	Brampton, ON

EMPLOYMENT EXPERIENCE

ASSISTANT MANAGER	Summer 2014
Simcol Security	Burlington, ON
<ul style="list-style-type: none">Independently conducted market gap analysis to identify new business opportunities, contributing to establishing several new contracts and a 15% increase in sales within 4 monthsInitiated a Spanish client outreach by analyzing Toronto's demographics and leveraged my fluency in Spanish to create a relationship with surrounding companies	

PRODUCTION LINE OPERATOR	2008 - 2013
Feature Foods Inc.	Brampton, ON
<ul style="list-style-type: none">Aided a skilled production and management team of approximately 40 people in the manufacturing facility processing several productsIdentified flaws within the plant and implemented solutions resulting in the increase of work done and overall efficiencyCompleted assigned jobs in a timely manner while minimizing material use, all in accordance with safety measures	

VOLUNTEER EXPERIENCE

IEEE UOTTAWA STUDENT BRANCH	Ottawa, ON
Battle Royale, Patronage Director	2016
<ul style="list-style-type: none">Battle Royale is the largest conglomerate gaming event in Ottawa, dedicated to offering a wide array of competitive and casual gaming, prizes, trivia contests, raffles, and giveaways.Designed a patronage package that was sent to potential sponsors in order to receive exposure and financial support	
Vice-President of Communications	2015-2016
<ul style="list-style-type: none">Distribution of regular updates to students, members and volunteers of the branch, while maintaining an active web presence on social media outletsDesigned promotional content for different mediums to promote branch events, in both the French and English languages due to the large demographic of both students at the University	
Vice-President of Social Affairs	2014-2015
<ul style="list-style-type: none">Lead the conception, development and maintenance of multiple social events that cater to students who wish to be more engaged in the IEEE community; IEEE Day ambassador for the University of OttawaPromoted team building exercises between executive committee members	

MAJOR PROJECTS

SENIOR PROJECT: Smart Power Outlet	2016
<ul style="list-style-type: none">A module designed to measure various power consumption variables and presented in a user friendly Web application with the use of an Arduino acting as the microcontroller and a Raspberry Pi acting as the database server	
DESIGN STUDY: Impact of Broadband Antireflection Coating Design on Solar Power Production	2014
<ul style="list-style-type: none">A conceptual understanding of the reflection and transmission of an electromagnetic uniform plane wave normally incident on the boundary between two dielectric media	

STRENGTHS & SKILLS

Core Strengths	Technical Skills
<ul style="list-style-type: none">Fluent in English, French and SpanishPower System Analysis & Design MethodsAnalog Filter Design MethodsTroubleshooting	<ul style="list-style-type: none">Matlab/AutoCADMultiSim/MPLAB X IDEPython/C/JavaScript/Node.jsMicrosoft Visio & Office