University of Waterloo
200 University Ave. West
Waterloo Ontario Canada N2L3G1

Undergraduate Unofficial Transcript

Name: **Balamurugan, Jaishree**
Student ID: **20814356**
Ontario Education Nbr: **167009406**

Degrees Awarded

Degree:	Bachelor of Applied Science
Confer Date:	06/03/2024
Degree Honours:	With Distinction
Degree Honours:	Dean's Honours List
	Computer Engineering, Honours, Co-operative Program

Beginning of Undergraduate Record

Fall 2019

Program: Computer Engineering, Honours, Co-operative Program
Level: 1A   Form Of Study: Enrolment

Course		Description	Attempted	Earned	Grade
ECE	105	Classical Mechanics	0.50	0.50	87
ECE	150	Fundamentals of Programming	0.50	0.50	76
ECE	190	Engineering Profession and Practice	0.25	0.25	95
ENGL	192	Communication in the Engineering Profession (COMPE, ELE, MGTE)	0.50	0.50	79
MATH	115	Linear Algebra for Engineering	0.50	0.50	72
MATH	117	Calculus 1 for Engineering	0.50	0.50	83
			In GPA	Earned	
Term GPA		80.82 Term Totals	2.75	2.75	
Cumulative GPA		80.82 Cumulative Totals	2.75	2.75	

Academic Standing: Excellent standing Effective 01/21/2020

Winter 2020

Program: Computer Engineering, Honours, Co-operative Program
Level: 1A   Form Of Study: Co-op Work Term

Course		Description	Attempted	Earned	Grade
COOP	1	Co-operative Work Term	0.50	0.00	CR
PD	20	Engineering Workplace Skills I: Developing Reasoned Conclusions	0.50	0.50	CR
			In GPA	Earned	
Term GPA		0.00 Term Totals	1.00	0.50	
Cumulative GPA		80.82 Cumulative Totals	2.75	3.25	

Spring 2020

Program: Computer Engineering, Honours, Co-operative Program
Level: 1B   Form Of Study: Enrolment

Course		Description	Attempted	Earned	Grade
ECE	101A	Work-term Reflections	0.13	0.13	CR
ECE	106	Electricity and Magnetism	0.50	0.50	97
ECE	108	Discrete Mathematics and Logic 1	0.50	0.50	97
ECE	124	Digital Circuits and Systems	0.50	0.50	96
ECE	140	Linear Circuits	0.50	0.50	97
ECE	192	Engineering Economics and Impact on Society	0.25	0.25	94
MATH	119	Calculus 2 for Engineering	0.50	0.50	100
			In GPA	Earned	
Term GPA		97.09 Term Totals	2.88	2.88	
Cumulative GPA		88.96 Cumulative Totals	5.50	6.13	

Academic Standing: Excellent standing Effective 09/15/2020
Term Honours: Term Dean's Honours List

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Name: **Balamurugan, Jaishree**
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Fall 2020

Program: Computer Engineering, Honours, Co-operative Program
Level: 1B   Form Of Study: Co-op Work Term

Course		Description	Attempted	Earned	Grade
COOP	2	Co-operative Work Term	0.50	0.00	CR
PD	21	Engineering Workplace Skills II: Developing Effective Plans	0.50	0.50	CR
			In GPA	Earned	
Term GPA		0.00 Term Totals	1.00	0.50	
Cumulative GPA		88.96 Cumulative Totals	5.50	6.63	

Winter 2021

Program: Computer Engineering, Honours, Co-operative Program
Level: 2A   Form Of Study: Enrolment

Course		Description	Attempted	Earned	Grade
ECE	101B	Work-term Reflections	0.13	0.13	CR
ECE	109	Materials Chemistry for Engineers	0.25	0.25	93
ECE	204	Numerical Methods	0.50	0.50	94
ECE	205	Advanced Calculus 1 for Electrical and Computer Engineers	0.50	0.50	99
ECE	222	Digital Computers	0.50	0.50	95
ECE	240	Electronic Circuits 1	0.50	0.50	87
ECE	250	Algorithms and Data Structures	0.50	0.50	99
			In GPA	Earned	
Term GPA		94.64 Term Totals	2.88	2.88	
Cumulative GPA		90.85 Cumulative Totals	8.25	9.51	

Academic Standing: Excellent Standing Effective 05/19/2021
Term Honours: Term Dean's Honours List

Spring 2021

Program: Computer Engineering, Honours, Co-operative Program
Level: 2A   Form Of Study: Co-op Work Term

Course		Description	Attempted	Earned	Grade
COOP	3	Co-operative Work Term	0.50	0.00	CR
PD	22	Professionalism and Ethics in Engineering Practice	0.50	0.50	CR
			In GPA	Earned	
Term GPA		0.00 Term Totals	1.00	0.50	
Cumulative GPA		90.85 Cumulative Totals	8.25	10.01	

Fall 2021

Program: Computer Engineering, Honours, Co-operative Program
Level: 2B   Form Of Study: Enrolment

Course		Description	Attempted	Earned	Grade
ECE	101C	Work-term Reflections	0.13	0.13	CR
ECE	203	Probability Theory and Statistics 1	0.50	0.50	96
ECE	207	Signals and Systems	0.50	0.50	97
ECE	208	Discrete Mathematics and Logic 2	0.50	0.50	87
ECE	224	Embedded Microprocessor Systems	0.50	0.50	94
ECE	252	Systems Programming and Concurrency	0.50	0.50	94
ECE	298	Instrumentation and Prototyping Laboratory	0.25	0.25	93
			In GPA	Earned	
Term GPA		93.54 Term Totals	2.88	2.88	
Cumulative GPA		91.52 Cumulative Totals	11.00	12.89	

Academic Standing: Excellent Standing Effective 01/20/2022
Term Honours: Term Dean's Honours List

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Winter 2022

Program: Computer Engineering, Honours, Co-operative Program
Level: 2B   Form Of Study: Co-op Work Term

Course		Description	Attempted	Earned	Grade
COOP	4	Co-operative Work Term	0.50	0.00	CR
PD	8	Intercultural Skills	0.50	0.50	CR
			In GPA	Earned	
Term GPA		0.00 Term Totals	1.00	0.50	
Cumulative GPA		91.52 Cumulative Totals	11.00	13.39	

Spring 2022

Program: Computer Engineering, Honours, Co-operative Program
Level: 3A   Form Of Study: Enrolment

Course		Description	Attempted	Earned	Grade
CLAS	104	Classical Mythology	0.50	0.50	94
ECE	101D	Work-term Reflections	0.13	0.13	CR
ECE	318	Communication Systems 1	0.50	0.50	87
ECE	327	Digital Hardware Systems	0.50	0.50	83
ECE	350	Real-Time Operating Systems	0.50	0.50	91
ECE	380	Analog Control Systems	0.50	0.50	94
			In GPA	Earned	
Term GPA		89.80 Term Totals	2.63	2.63	
Cumulative GPA		91.20 Cumulative Totals	13.50	16.02	

Academic Standing: Excellent Standing Effective 09/13/2022
Term Honours: Term Dean's Honours List

Fall 2022

Program: Computer Engineering, Honours, Co-operative Program
Level: 3B   Form Of Study: Enrolment

Course		Description	Attempted	Earned	Grade
ECE	307	Probability Theory and Statistics 2	0.50	0.50	83
ECE	351	Compilers	0.50	0.50	89
ECE	356	Database Systems	0.50	0.50	92
ECE	358	Computer Networks	0.50	0.50	95
SCI	238	Introductory Astronomy	0.50	0.50	97
			In GPA	Earned	
Term GPA		91.20 Term Totals	2.50	2.50	
Cumulative GPA		91.20 Cumulative Totals	16.00	18.52	

Academic Standing: Excellent Standing Effective 01/19/2023
Term Honours: Term Dean's Honours List

Winter 2023

Program: Computer Engineering, Honours, Co-operative Program
Level: 3B   Form Of Study: Co-op Work Term

Course		Description	Attempted	Earned	Grade
COOP	5	Co-operative Work Term	0.50	0.00	CR
PD	5	Project Management	0.50	0.50	CR
			In GPA	Earned	
Term GPA		0.00 Term Totals	1.00	0.50	
Cumulative GPA		91.20 Cumulative Totals	16.00	19.02	

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Spring 2023

Program: Computer Engineering, Honours, Co-operative Program
Level: 4A Form Of Study: Enrolment

Course		Description	Attempted	Earned	Grade
EARTH	123	Introductory Hydrology	0.50	0.50	97
ECE	452	Software Design and Architectures	0.50	0.50	94
ECE	457C	Reinforcement Learning	0.50	0.50	97
ECE	498A	Engineering Design Project	0.50	0.50	92
MUSIC	246	Soundtracks: Music in Film	0.50	0.50	98
			In GPA	Earned	
Term GPA		95.60 Term Totals	2.50	2.50	
Cumulative GPA		91.80 Cumulative Totals	18.50	21.52	

Academic Standing: Excellent Standing Effective 09/14/2023
Term Honours: Term Dean's Honours List

Fall 2023

Program: Computer Engineering, Honours, Co-operative Program
Level: 4A Form Of Study: Co-op Work Term

Course		Description	Attempted	Earned	Grade
COOP	6	Co-operative Work Term	0.50	0.00	NCR
			In GPA	Earned	
Term GPA		0.00 Term Totals	0.50	0.00	
Cumulative GPA		91.80 Cumulative Totals	18.50	21.52	

Winter 2024

Program: Computer Engineering, Honours, Co-operative Program
Level: 4B Form Of Study: Enrolment

Course		Description	Attempted	Earned	Grade
CLAS	202	Love, Life, and Death in Rome	0.50	0.50	100
ECE	416	Advanced Topics in Networking	0.50	0.50	89
ECE	459	Programming for Performance	0.50	0.50	84
ECE	498B	Engineering Design Project	0.50	0.50	90
MSCI	331	Introduction to Optimization	0.50	0.50	91
			In GPA	Earned	
Term GPA		90.80 Term Totals	2.50	2.50	
Cumulative GPA		91.68 Cumulative Totals	21.00	24.02	

Academic Standing: Excellent Standing Effective 05/16/2024

Milestones

Date Completed	Description	Status
09/01/2019	Workplace Hazardous Materials	Completed
12/31/2019	Undergraduate Communication Requirement	Completed
04/30/2020	Work Term 1	Completed
12/31/2020	Work Term 2	Completed
08/31/2021	Work Term 3	Completed
04/30/2022	Work Term 4	Completed
04/30/2023	Work Term 5	Completed

Scholarships and Awards

2020	University of Waterloo President's Scholarship of Distinction
2021	First in Class Engineering Scholarship

End of Undergraduate Unofficial Transcript