

**THE GEORGIA INSTITUTE OF TECHNOLOGY**  
**GEORGIA INSTITUTE OF TECHNOLOGY**  
 A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA  
 OFFICE OF THE REGISTRAR - ATLANTA, GEORGIA 30332-0315  
**OFFICIAL DOCUMENT**

Student No: 903-45-8028

Date of Birth: 24-MAY-1996

Date Issued: 05-OCT-2022

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Page: 1

Issued To: Hongyi Chen

PARCHMENT DOCUMENTID: TW202AOF

Record of: Hongyi Chen

							SUBJ	NO.	C	COURSE TITLE	CRED	GRD	PTS	R
Current Program							Institution Information continued:							
Major : Robotics							Summer 2020							
							Computer Science							
							CS	6601	O	Artificial Intelligence	3.00	A	12.00	
							CS	7638	O	Robotics: AI Techniques	3.00	A	12.00	
							Term: Ehhrs: 6.00 GPA-Hrs: 6.00 Pts: 24.00 GPA: 4.00							
INSTITUTION CREDIT:							Spring 2021							
Fall 2018							Computer Science							
Computer Science							CS	6476	O	Computer Vision	3.00	A	12.00	
							Term: Ehhrs: 3.00 GPA-Hrs: 3.00 Pts: 12.00 GPA: 4.00							
CS 6200 O Graduate Intro to OS														
CS 6250 O Computer Networks														
Term: Ehhrs: 6.00 GPA-Hrs: 6.00 Pts: 24.00 GPA: 4.00							Fall 2021							
Spring 2019							Robotics							
Computer Science							CS	7648	A	Interactive Robo Learn	3.00	A	12.00	
CS 6210 O Adv Operating Systems							ECE	6550	A	Linear Sys and Controls	3.00	A	12.00	
CS 6290 O High Perform Comput Arch							ECE	6563	A	Networked Control	3.00	A	12.00	
Term: Ehhrs: 6.00 GPA-Hrs: 6.00 Pts: 24.00 GPA: 4.00							ECE	7741	A	Robotics Pro Prep 1	1.00	A	4.00	
							ME	8943	A	Special Prob-Automation	3.00	A	12.00	
							Term: Ehhrs: 13.00 GPA-Hrs: 13.00 Pts: 52.00 GPA: 4.00							
Summer 2019							Spring 2022							
Computer Science							Robotics							
CS 6291 O Embedded Software Opt.							CS	7634	A	AI Storytell In Vir Wrld	3.00	W	0.00	
CS 8803 O Special Topics							CS	7785	A	Intro Robotics Research	3.00	A	12.00	
Compilers- Theory & Practice							ECE	7742	A	Robo Pro Prep 2	1.00	A	4.00	
Term: Ehhrs: 3.00 GPA-Hrs: 3.00 Pts: 12.00 GPA: 4.00							ECE	8900	A	Special Problems	9.00	S	0.00	
							Term: Ehhrs: 13.00 GPA-Hrs: 4.00 Pts: 16.00 GPA: 4.00							
Fall 2019							Summer 2022							
Computer Science							Robotics							
CS 6265 O Information Security Lab							CS	8740	A	Robotics Internship	1.00	V	0.00	
CS 6340 O Software Analysis & Test							Term: Ehhrs: 0.00 GPA-Hrs: 0.00 Pts: 0.00 GPA: 0.00							
Term: Ehhrs: 0.00 GPA-Hrs: 0.00 Pts: 0.00 GPA: 0.00							***** CONTINUED ON PAGE 2 *****							

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Page: 2

\*\*\*\*\* BEGIN GRADUATE SEMESTER TOTALS \*\*\*\*\*

	Earned Hrs	GPA Hrs	Points	GPA
TOTAL INSTITUTION	50.00	41.00	164.00	4.00

TOTAL TRANSFER	0.00	0.00	0.00	0.00
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OVERALL	50.00	41.00	164.00	4.00
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REGENTS	50.00	41.00	164.00	4.00
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ACADEMIC STANDING Good Standing

\*\*\*\*\* END GRADUATE SEMESTER TOTALS \*\*\*\*\*

\*\*\*\*\* END OF TRANSCRIPT \*\*\*\*\*

Current Schedule:

Fall 2022

CS 8803 A Special Topics 3.00 IN PROGRESS

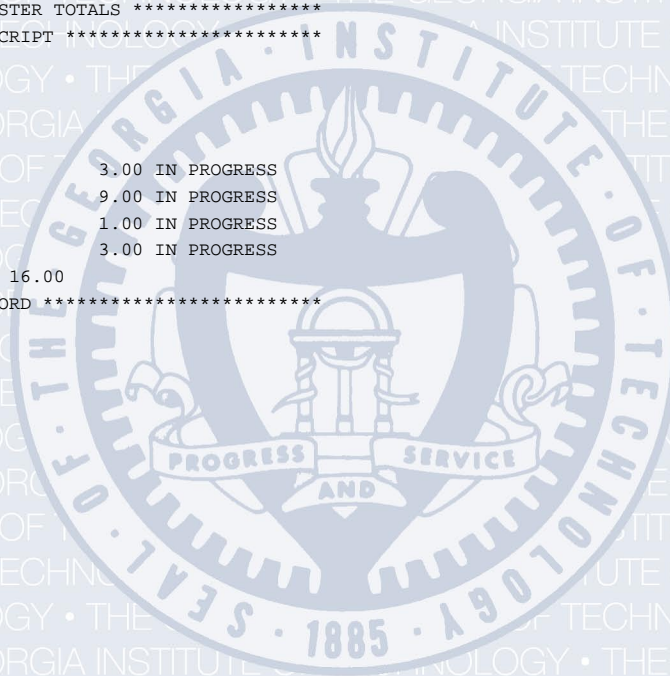
CS 8903 A Special Problems 9.00 IN PROGRESS

ECE 7743 A Robo Pro Prep 3 1.00 IN PROGRESS

ECE 8741 A Robo Capstone Project 3.00 IN PROGRESS

Hours: 16.00

\*\*\*\*\* END OF RECORD \*\*\*\*\*



# GEORGIA INSTITUTE OF TECHNOLOGY OFFICIAL DOCUMENT INFORMATION

## ACCREDITATION

The Georgia Institute of Technology is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award bachelor's, master's, and doctoral degrees. Inquiries to the Southern Association of Colleges and Schools (SACS) should be forwarded to Southern Association of Colleges and Schools, 1866 Southern Lane, Decatur, Georgia 30033-4097, phone (404)679-4500. The Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - phone: (410)347-7700, has accredited engineering B.S. degrees in Aerospace, Biomedical, Chemical and Biomolecular, Civil, Computer, Electrical, Industrial, Materials Science, Mechanical, Nuclear and Radiological. Polymer and Fiber, and two engineering B.S. degrees offered through the Regional Engineering Program: Civil and Computer. Not currently accredited are the B.S. in Environmental Engineering and three engineering BS degrees offered through the Regional Engineering Program: Electrical, Mechanical, and Environmental. The American Chemical Society has accredited the BS. degree in Chemistry: the Human Factors and Ergonomics Society has accredited the Ph.D. in Engineering Psychology: the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the National Commission on Orthotic and Prosthetic Education (NCOPE) has accredited the M.S. Degree in Prosthetics and Orthotics (MSPO). The B.S. in Computer Science program is accredited by the Computing Accreditation Commission (CAC) of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - phone (410) 347-7700. The College of Management and all of its degrees are fully accredited by the Association to Advance Collegiate Schools of Business. The National Architectural Board has accredited the Master of Architecture; the American Council for Construction Education has accredited the BS. in Building Construction the M.S. in Building Construction and Integrated Facility Management is recognized by the International Facility Management Association (IFMA) and the Design Build Institute of America (DBIA). The Planning Accreditation Board has accredited the Master of City and Regional Planning: the BS.in Industrial Design has been accredited by the National Association of Schools in Art and Design (NASAD) and is recognized by the Industrial Designers Society of America. Extended version may be viewed at <http://catalog.gatech.edu/about/accreditation/>

## CALENDAR

Prior to July 1, 1948, the Georgia Institute of Technology was known as the Georgia School of Technology. From September, 1946, through Summer Term, 1999, the Institute was on the quarter system. Effective Fall Term, 1999, all curricula are based upon a semester calendar with three terms per calendar year. For academic calendar information please visit. <https://registrar.gatech.edu/calendar>

## CONTACT INFORMATION

Office of the Registrar, Georgia Institute of Technology, Atlanta, GA 30332-0315, 404-894-4150 (voice) 404-894-0167 (fax), [comments@registrar.gatech.edu](mailto:comments@registrar.gatech.edu), or <http://www.registrar.gatech.edu>

## COURSE NUMBERING SYSTEM

Course numbers below 1000 denote remedial courses and may not be used in satisfying degree requirements. Course numbers below 3000 denote lower division (freshman and sophomore) courses. Those numbered 3000-4999 denote upper division (junior and senior) courses. Courses designed for graduate students are numbered 6000 and above.

## GRADING SYSTEM

Effective September 17, 1973

Grade	Definition	Quality Points Per Credit Hour
A	Excellent	4
B	Good	3
C	Satisfactory	2
D	Passing	1
F	Failure	0
S	Satisfactory completion of a course taken under pass/fail, or of a course in which no other letter grade may be assigned	0
U	Unsatisfactory completion of a course taken under pass/fail, or of a course in which no other letter grade may be assigned	0
V	Audit (no academic achievement implied)	0
I	Incomplete	0
W	Withdraw	0
NR	Not Reported. Assigned when an instructor fails to submit grades by the published deadline, through no fault of the student	0

## GRADE POINT AVERAGE

The scholastic average is computed by dividing the quality points earned by the number of credit hours scheduled in which a final grade of A, B, C, D or F has been recorded. In the case of repeated courses, all grades earned are calculated into the grade point average with the exception of those changed via grade substitution (see below). The Institution grade point average displayed will take Substituted grades into consideration. The Regents grade point average displayed will be a calculation of all grades. Prior to Fall Term, 1999, all instances of an individual course, including those associated with repeated and remedial courses, were counted in the total number of earned hours. Effective Fall Term 1999, earned hours from repeated courses and remedial courses (those numbered below 1000) will not be included in the earned hours total.

## GRADE SUBSTITUTION

Beginning with first-time freshmen entering Fall 2005 through Spring 2019, students may request a grade substitution for no more than two courses taken in the first two semesters where the grade is "D" or "F". The original grade will not be included in the computation of the grade point average but will appear on the transcript. Effective Summer 2019, undergraduate students may repeat courses for grade substitution according to the criteria established at <http://catalog.gatech.edu/policies/grading-gpa/grade-substitution/>

## ANTICIPATED GRADUATION DATE

Anticipated graduation dates are calculated for all students based on the average number of terms required to complete degree requirements with the assumption that the student will enroll as a full-time student each term (including summer term). The anticipated graduation date should not be viewed as a guarantee of graduation.

Graduation is based on hours, courses and scholastic average only: no prescribed time is set.

## ACADEMIC STANDING

### GOOD

Student is not on academic warning « probation; is maintaining satisfactory academic progress.

### WARNING

A sub-set of GOOD. Student's most recent academic performance has been unsatisfactory *or* the overall average is below the minimum requirement.

### PROBATION

Student's most recent academic performance has been extremely unsatisfactory or the overall academic average has continued to be below the minimum requirement.

### REVIEW

Student who normally would be dropped from the rolls due to academic deficiencies but appears from the record not to have completed the term. Student cannot be enrolled on Review status.

### DROP/DISMISSAL

Student has been dropped from the rolls due to academic deficiencies.

## DEANS LIST FACULTY HONORS

Term honors for undergraduate students on GOOD academic standing. Deans List- 3.0 grade point average for term with no incomplete grades and a full load taken on letter grade basis  
Faculty Honors - 4.0 grade point average for term with no incomplete grade or Withdrawals and a full load taken on letter grade basis.

## TRANSFER CREDIT

In general, a grade of "C" or better is required before transfer credit is awarded. Courses transferred from another institution are recorded as the equivalent Georgia Tech courses and the grades are not recorded

## TRANSCRIPT LEGEND

SUBJ	=	Subject
NO	=	Course Number
C	=	Campus (A =Atlanta Campus, O = Online) Full listing at <a href="https://registrar.gatech.edu/info/campus-codes">https://registrar.gatech.edu/info/campus-codes</a>
TITLE	=	Course Title
CRED	=	Credit Hours
GRD	=	Grade
PTS	=	Quality Points
R	=	Indicates course has been repealed.
Repeat column codes:		
E	=	Excluded from earned hours and GPA
I	=	Included in earned hours and GPA
A	=	Included in GPA, but not in earned hours

Student Name: Hongyi Chen

Birth Date/Month: 24-May

## Date Awarded Degree Awarded

May 23, 2021 Master of Science in Electrical and Computer Engineering

### Beginning of Graduate Record

#### Spring 2020

DPT	CRS #	COURSE TITLE	UNITS	FINAL GRADE	QUALITY POINTS
INI	14736	DIST SYSTMS:TEC INF	12.0	A	48.0
ISR	17683	DATA STRCR APPL PRGM	6.0	A	24.0
ECE	18349	INTRO EMBEDDED SYS	12.0	A	48.0
ECE	18989	INTRO GRAD STUDIES	1.0	N	0.0
ISM	95881	WEB APP DEV	6.0	A-	22.0
		UNITS PASSED	UNITS FACTORED	FINAL QPA	TOTAL POINTS
Semester		36.0	36.0	3.95	142.0
Cumulative		36.0	36.0	3.95	142.0

#### Fall 2020

DPT	CRS #	COURSE TITLE	UNITS	FINAL GRADE	QUALITY POINTS
MLG	10703	DEEP RL & CONTROL	12.0	B+	40.0
ROB	16867	HUMAN ROBOT INTRACTN	12.0	A-	44.0
ECE	18980	MS GRADUATE PROJECT	12.0	A-	44.0
ECE	18989	INTRO GRAD STUDIES	1.0	S	0.0
MEG	24451	FEEDBK CNTRL SYSTEMS	12.0	A	48.0
		UNITS PASSED	UNITS FACTORED	FINAL QPA	TOTAL POINTS
Semester		49.0	48.0	3.67	176.0
Cumulative		85.0	84.0	3.79	318.1

#### Spring 2021

DPT	CRS #	COURSE TITLE	UNITS	FINAL GRADE	QUALITY POINTS
ROB	16311	INTRO TO ROBOTICS	12.0	B	36.0
ROB	16883	SAFE ROBOTICS	12.0	A	48.0
ECE	18786	INTRO DEEP LRNG	12.0	A-	44.0
		UNITS PASSED	UNITS FACTORED	FINAL QPA	TOTAL POINTS
Semester		36.0	36.0	3.56	128.0
Cumulative		121.0	120.0	3.72	446.1

### End of Graduate Record

A raised seal is not required.

<http://www.cmu.edu/hub/transcript-legend.html>

This transcript processed and delivered by Parchment



*John R. Papinchak*  
John R. Papinchak  
University Registrar

# Carnegie Mellon University

## Transcript Information

This information is also available at:

<https://www.cmu.edu/hub/registrar/student-records/transcripts/legend.html>

### Contact Information

Please direct all questions to The University Registrar's Office:

Carnegie Mellon University  
University Registrar's Office  
5000 Forbes Avenue  
Pittsburgh, PA 15213-3890

Phone: 412-268-4138  
Fax: 412-268-6651  
Email: [uro-transcripts@andrew.cmu.edu](mailto:uro-transcripts@andrew.cmu.edu)  
Website: <http://www.cmu.edu/hub>

### Family Education Rights and Privacy Act (FERPA) of 1974 as Amended

This record is released on the condition that the student information contained herein will not be transferred to a third party without the written consent of the student.

### Accreditation

Carnegie Mellon University is an accredited member of the Middle States Commission on Higher Education, 3624 Market St., Philadelphia, PA 19104.

College and department accreditations include:

- Accreditation Board for Engineering Technology (ABET) – Chemical Engineering, Civil Engineering, Electrical and Computer Engineering, Engineering and Public Policy, Mechanical Engineering, and Materials Science and Engineering
- National Architectural Accrediting Board (NAAB) – Architecture
- National Association of Schools of Art and Design (NASAD) – Art and Design
- National Association of Schools of Music (NASM) – Music
- American Assembly of Collegiate Schools of Business (AACSB) and Middle Atlantic Association of College of Business Administration (MAACBA) – David A. Tepper School of Business; American Chemical Society (ACS) – Chemistry
- National Association of Schools of Public Affairs and Administration (NAPAA) – H. John Heinz III College.

### Language of Instruction

All Carnegie Mellon University courses are taught in English.

### Teaching Location

This transcript reflects all Carnegie Mellon coursework, independent of campus or teaching location.

### Calendar

Carnegie Mellon observes the semester system with two six-week summer sessions. Courses may be taught in other shortened sessions.

### Course Numbers

Each Carnegie Mellon University course number begins with a two-digit prefix which designates the department offering the course (76-xxx courses are offered by the Department of English, etc.). Although each department maintains its own course numbering practices, typically the first digit after the prefix indicates the class level: xx-1xx courses are freshmen-level, xx-2xx courses are sophomore level, etc. xx-6xx courses may be either undergraduate senior-level or graduate-level, depending on the department. Xx-7xx courses and higher are graduate-level.

### Degree Requirements

Degrees are awarded upon satisfactory completion of residence requirements, all requirements in the approved curriculum(a) and by recommendation for degree(s) by the faculty of the appropriate college(s).

### Units of Work vs. Credit Hours

Three units equal one semester hour of credit.

### Quality Point Average (QPA) Calculations

Carnegie Mellon University defines a quality point as a point value times units for a given course. QPAs are calculated according to the following formula:

*Semester QPA:* quality points divided by factorable units.

*Cumulative QPA:* total quality points divided by total factorable units.

Undergraduate courses may not be factorable into the QPA for graduate students, depending on the student's college.

### Units Carried vs. Passed vs. Factored

Units Carried refers to the total number of units for which the student is registered.

Units Passed is the total of all units that have a passing grade. Grades of 'R', 'N', and 'I' are not included in units passed.

Units Factored is the total of all units factored into QPA. See Grading Standards for grades not factorable into QPA. Undergraduate courses are not factorable into QPA for graduate students.

### Cumulative QPA

A separate cumulative QPA is calculated for undergraduate and graduate records. If a student attends for a combination of undergraduate, graduate studies, and/or non-degree studies, a cumulative QPA may not be calculated.

Cumulative QPA may not be available on transcripts for semesters prior to 1989.

### 4.0 Grading Standards

Undergraduate students (and graduate students in CFA, CIT, CMU, MCS, and SCS who entered before Fall 1995):

Grade	Point Value	Description
A	4.0	Excellent
B	3.0	Good
C	2.0	Satisfactory
D	1.0	Passing
R	0.0	Failure
X	0.0	Conditional Failure
S	non-factorable	Satisfactory
P	non-factorable	Passing
N	non-factorable	Failure in Pass/Fail Course
O	non-factorable	Audit
W	non-factorable	Withdrawal
I	non-factorable	Incomplete
AD	non-factorable	Credit by examination
TR	non-factorable	Transfer credit

### 4+ Grading Standards / 9.0 Grading Standards

The 4+ grading scale is applicable to graduate students who entered in and after Fall 1995. The 9.0 grading scale is applicable only to certain graduate students who entered before Fall 1995: Students in the Graduate School of Industrial Administration (GSIA, now Tepper School of Business (TSB)), the School of Urban and Public Affairs (SUPA, now Heinz College (HC)), and graduate students who were admitted to the College of Humanities and Social Sciences (H&SS, now Dietrich College (DC)) after August 1986.

Grade	Point Value (4+)	Point Value (9.0)	Description
A+ *	4.33	9	
A	4.00	8	
A-	3.66	7	
B+	3.33	6	
B	3.00	5	
B-	2.67	4	
C+	2.33	3	
C	2.00	2	
C-	1.67	1	
D+ *	1.33	-	
D *	1.0	0	
R	0.0	0	Failure
X	0.0	-	Conditional Failure
S	non-factorable	non-factorable	Satisfactory
P	non-factorable	non-factorable	Passing
N	non-factorable	-	Failure in Pass/Fail Course
O	non-factorable	-	Audit
W	non-factorable	-	Withdrawal
I	non-factorable	-	Incomplete
AD	non-factorable	-	Credit by examination
TR	non-factorable	-	Transfer credit

\* DC and CIT graduate students are not permitted to receive an A+. TSB and HC graduate students do not receive D or D+ grades.

**After the mid-point of the spring 2020 semester, a global pandemic caused a significant disruption that warranted temporary changes to our grading policy. These changes offered broader use of our Pass/No Pass (P/NP) grading option and the acceptance of passing grades to fulfill degree requirements.**

### Grading Scale & QPA Conversion

We are unable to provide conversion to other grading scales, such as percentage. A guide to our grading scale is provided on the back of all official transcripts. While we do provide overall semester QPA and cumulative QPA, we are unable to provide an "in-major" QPA (i.e. QPA for courses only in your major).

### Physical Education Courses

Physical Education Courses are considered Units Passed in the student's overall semester and cumulative QPA; they are not considered Units Factorable and are not used in calculating the student's overall semester QPA, rank in class or for academic actions.

### Statement Of Assurance

Carnegie Mellon University does not discriminate in admission, employment, or administration of its programs or activities on the basis of race, color, national origin, sex, handicap or disability, age, sexual orientation, gender identity, religion, creed, ancestry, belief, veteran status, or genetic information. Furthermore, Carnegie Mellon University does not discriminate and is required not to discriminate in violation of federal, state, or local laws or executive orders.

Inquiries concerning the application of and compliance with this statement should be directed to the Vice President for Campus Affairs, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213, telephone 412-268-2056.

Obtain general information about Carnegie Mellon University by calling 412-268-2000.

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