

Jason Chan

Mechanical Engineer, Research Scientist
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SUMMARY

Experienced in design, analysis, and verification of optical and mechanical systems in multiphase fluids research.

EDUCATION

University of Wisconsin - Madison <i>PhD in Mechanical Engineering, GPA: 3.8/4.0</i>	Madison, WI <i>Expected graduation Dec. 2023</i>
University of Wisconsin - Madison <i>Master of Science, Mechanical Engineering</i>	Madison, WI <i>Graduated May 2020</i>
University of Wisconsin - Madison <i>Bachelor of Science, Mechanical Engineering</i>	Madison, WI <i>Graduated May 2018</i>

RESEARCH

Multiphase Flow Visualization and Analysis Laboratory (MFVAL) <i>Research Assistant</i>	Fall 2018 - present <i>UW-Madison</i>
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Sponsor: Dr. Evan Hurlburt at the Naval Nuclear Laboratory

- Designed, fabricated, instrumented, and operated a closed-loop flow facility for vertical annular flow heat transfer experiments with pressurized refrigerant.
- Quantified experimental uncertainties using vibration and optical analyses.
- Developed and validated new experimental techniques for non-intrusive thermometry and liquid-film thickness measurements using laser optics.
- Developed image processing programs using high-performance computing for the optical film-thickness measurement techniques.
- Designed LabVIEW programs to control the flow loops, enable high-speed data collection, and monitor system status.
- Developed process for documenting facility components and experimental procedures.
- Mentored 10 undergraduate research assistants throughout their research projects.
- Co-authored 4 publications in peer-reviewed scientific journals. Presented work at two international conferences. Wrote yearly progress reports for sponsor.

Two Phase Solver <i>Lead Software Developer</i>	2023 - present <i>UW-Madison</i>
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- Collaboration between scientists from UW-Madison, Westinghouse and the Naval Nuclear Lab.
- Developed flow boiling simulation software in MATLAB for a wide range of conditions, fluids, and geometry.
- Designed the program framework and optimized computational performance.
- Managed project and delegated tasks to team members.

Advanced Materials for Energy and Electronics Group <i>Undergraduate Research Assistant</i>	Spring 2016 - Spring 2018 <i>UW-Madison</i>
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- Designed and fabricated instruments for producing highly reproducible, large-scale arrays of carbon nanotubes on wafers.
- Developed optical setup for tracking ink/water interface during nanotube deposition.
- Developed MATLAB-based image processing program to characterize the alignment of carbon nanotubes deposited in a high-shear flow for next-generation transistors.
- Co-authored 2 publications in peer-reviewed scientific journals.

SKILLS

Programming	LabVIEW, MATLAB, Python, Fortran, Bash, Git, JavaScript, L ^A T _E X
Applications	EES, ANSYS Fluent, Zemax, Adobe Illustrator
Fabrication	Vertical milling machines (CNC, manual), Lathe work (CNC, manual; metal), Woodworking, 3D Printing, Electronics soldering, MIG & TIG Welding, Laser cutting, Sheet metal work, Proof-of-concept prototypes
Language	Mandarin Chinese (native), English (fluent), Japanese (conversational)

TEACHING EXPERIENCES

Teaching Assistant	UW-Madison
<i>Thermodynamics, Senior Design, Intro to Mechanical Engineering</i>	<i>Fall 2018 - Fall 2022</i>
<ul style="list-style-type: none">• Guided students through an iterative design process.• Introduced freshmen to a wide array of engineering topics through a hands-on approach.	
Sailing Club Instructor	UW-Madison
<i>Techs, Club 420s, Lasers, Sloops</i>	<i>Summer 2016</i>
<ul style="list-style-type: none">• Communicated importance of water safety and developed strategies for resolving unexpected situations on the water.• Introduced students to the basic techniques of inland sailing and sailboat racing.• Encouraged students to develop appreciation for teamwork in a fast-paced environment.	

PUBLICATIONS

- J. Chan, R. W. Morse, E. T. Hurlburt, K. M. Dressler, G. F. Nellis, A. Berson (in progress). *Liquid-Film Flow Rate From Measurements of Disturbance Wave Characteristics for Applications in Thin Film Flow*. Experiments in Fluids.
- R. W. Morse, J. Chan, E. T. Hurlburt, J.M. Le Corre, A. Berson, G. F. Nellis, K. M. Dressler (under review). *A new paradigm for the role of disturbance waves and wall heat transfer in annular two-phase flow*. International Journal of Heat and Mass Transfer.
- R. W. Morse, J. Chan, K. M. Dressler, E. T. Hurlburt, G. F. Nellis, and A. Berson (under review). *Critical heat flux, liquid-film dryout, and disturbance waves under pulsed vapor conditions in two-phase annular flow*. Experimental Thermal and Fluid Science.
- R. W. Morse, T.A. Moreira, J. Chan, K. M. Dressler, G. Ribatski, E. T. Hurlburt, L.L. McCarroll, G. F. Nellis, and A. Berson (2021). *Critical Heat Flux and the Dryout of Liquid Film in Two-phase Annular Flow*. Int. J. Heat Mass and Mass Transfer.
- Jason Chan (2020). *Thermoreflectance for the Instantaneous Measurement of Temperature at a Wall-Vapor Interface*. Master's thesis. University of Wisconsin - Madison.
- B. F. Fehring, R. W. Morse, J. Chan, K. Dressler, E. T. Hurlburt, G. F. Nellis, and A. Berson (2020). *Instantaneous optical measurement of the temperature at the interface between a wall and a thin liquid film*. Journal of Heat Transfer.
- K. R. Jinkins, J. Chan, R. M. Jacobberger, A. Berson, and M. S. Arnold (2018). *Substrate-Wide Confined Shear Alignment of Carbon Nanotubes for Thin Film Transistors*. Advanced Electronic Materials.
- K. R. Jinkins, J. Chan, G. J. Brady, K. K. Gronski, P. Gopalan, H. T. Evensen, A. Berson, and M. S. Arnold (2017). *Nanotube Alignment Mechanism in Floating Evaporative Self-Assembly*. Langmuir.

CONFERENCE PROCEEDINGS

- J. Chan, R. W. Morse, K. Dressler, G. F. Nellis, A. Berson. *Liquid-Film Flow Rate From Measurements of Disturbance Wave Characteristics for Applications in Two-Phase Annular Flow*. ASME Summer Heat Transfer Conference. Washington, DC. 2023
- J. Chan, B. Fehring, R. W. Morse, K. M. Dressler, G. F. Nellis, A. Berson. *Thermoreflectance Wall Temperature Measurement in Annular Two-Phase Flow*. APS Division of Fluid Dynamics. Atlanta, GA. 2018.

SELECT INTERESTS

Outdoors	Sailing, birding, cycling, running, swimming, camping
Music	Classical guitar
Creative	Wildlife photography, watercolor, cooking, stained glass, topological map-making

REFERENCES

Prof. Gregory F. Nellis - Solar Energy Lab at UW-Madison
Email: gfnellis@engr.wisc.edu

Dr. Evan T. Hurlburt - Naval Nuclear Laboratory
Email: evan.hurlburt@unnpp.gov

Dr. Jean-Marie LeCorre - Westinghouse
Email: lecorrjm@westinghouse.com

Dr. Tiago A. Moreira - Thermal Hydraulics Laboratory at UW-Madison
Email: tmoreira@wisc.edu

Undergraduate-Unofficial Transcript

Name: Chan,Jason
SIS ID: 0005210445

Campus ID: 9070373957

Birthdate: 09/09/1995
Print Date: 08/23/2023
Institution Info: University of Wisconsin-Madison
Other Institutions Attended: Culver Academies Culver, IN USA

Degrees Awarded
Degree: Bachelor of Science-Mechanical Engineering
Confer Date: 05/13/2018
Degree GPA: 3.364
Major: Mechanical Engineering
Degree: Master of Science-Mechanical Engineering
Confer Date: 05/10/2020
Major: Mechanical Engineering

09-26-2014
--GER Quantitative Reasoning Part A satisfied.

Beginning of Undergraduate Record**Fall 2014-2015**

Program: General Engineering
Major: Intended: Mechanical Engr

Test Credits Applied Toward General Engineering

Course	Description	Attempted	Earned	Grade	Points
MATH 221	Calculus&Analytic Geometry 1	5.000	5.000	T	0.000
MATH 222	Calculus&Analytic Geometry 2	4.000	4.000	T	0.000
PHYSICS 103	General Physics	4.000	4.000	T	0.000
PHYSICS 104	General Physics	4.000	4.000	T	0.000
STAT 301	Intro-Statistical Methods	3.000	3.000	T	0.000
BIO SCI X01	AP Biology	3.000	3.000	T	0.000
COMP SCI X12	Electives	3.000	3.000	T	0.000
ENGLISH X02	Electives	3.000	3.000	T	0.000
Transfer Test Totals:		29.000	29.000		0.000

Session: Regular (09/02/2014 - 12/12/2014)

Course	Description	Attempted	Earned	Grade	Points
CHEM 103	PEC General Chemistry I	4.000	4.000	C	8.000
E P D 155	EC a Basic Communication	2.000	2.000	B	6.000
MATH 234	NIC Calc--Functns of Variables	4.000	4.000	A	16.000
PSYCH 202	SEC Introduction to Psychology	3.000	3.000	BC	7.500

GPA	Attempted	Earned	GPA Units	Points
UW-Madison Term Summary:	2.885	13.000	13.000	37.500
Adv Stg Term Summary:		29.000	29.000	0.000
Combined Term Summary:	2.885	42.000	42.000	37.500

GPA	Attempted	Earned	GPA Units	Points
UW-Madison Cum Summary:	2.885	13.000	13.000	37.500
Adv Stg Cum Summary:		29.000	29.000	0.000
Combined Cum Summary:	2.885	42.000	42.000	37.500

Academic Standing Effective 12/21/2014: Good Academic Standing

Spring 2014-2015

Program: General Engineering
Major: Intended: Mechanical Engr

Session: Regular (01/20/2015 - 05/08/2015)

Course	Description	Attempted	Earned	Grade	Points
AFROAMER 231	eSEC Intro to Afro-Am History	3.000	3.000	B	9.000
CHEM 104	PEC General Chemistry II	5.000	5.000	BC	12.500
COMP SCI 302	NIC r Introduction to Programming	3.000	3.000	AB	10.500
E M A 201	PIC Statics	3.000	3.000	C	6.000
INTEREGR 160	Intro to Engineering Design	3.000	3.000	BC	7.500

GPA	Attempted	Earned	GPA Units	Points
UW-Madison Term Summary:	2.676	17.000	17.000	45.500
Adv Stg Term Summary:		0.000	0.000	0.000
Combined Term Summary:	2.676	17.000	17.000	45.500

GPA	Attempted	Earned	GPA Units	Points
UW-Madison Cum Summary:	2.767	30.000	30.000	83.000
Adv Stg Cum Summary:		29.000	29.000	0.000
Combined Cum Summary:	2.767	59.000	59.000	83.000

Academic Standing Effective 05/17/2015: Good Academic Standing

Fall 2015-2016

Program: General Engineering
Major: Intended: Mechanical Engr

Session: Regular (09/02/2015 - 12/15/2015)

Course	Description	Attempted	Earned	Grade	Points
ART 448	Special Topics	4.000	4.000	A	16.000
Course Topic: Intro to Digital Photography					
MATH 320	NAC Linear Alg & Diff Equations	3.000	3.000	AB	10.500
M E 231	Intro Engineering Graphics	2.000	2.000	B	6.000
M E 240	Dynamics	3.000	3.000	A	12.000
M S & E 350	Intro to Materials Science	3.000	3.000	B	9.000

GPA	Attempted	Earned	GPA Units	Points
UW-Madison Term Summary:	3.567	15.000	15.000	53.500
Adv Stg Term Summary:		0.000	0.000	0.000
Combined Term Summary:	3.567	15.000	15.000	53.500

GPA	Attempted	Earned	GPA Units	Points
UW-Madison Cum Summary:	3.033	45.000	45.000	136.500
Adv Stg Cum Summary:		29.000	29.000	0.000
Combined Cum Summary:	3.033	74.000	74.000	136.500

Term Honor: Dean's Honor List

Academic Standing Effective 12/24/2015: Good Academic Standing

Undergraduate-Unofficial Transcript

Name: Chan,Jason
SIS ID: 0005210445

Spring 2015-2016

Program: General Engineering
Major: Intended: Mechanical Engr
Program: Certificates - Undergraduate
Certificate: Computer Sciences Cert

Session: Regular (01/19/2016 - 05/06/2016)

Course	Description	Attempted	Earned	Grade	Points
ART HIST 372	HIC Arts of Japan	3.000	3.000	B	9.000
COMP SCI 367	NIC r Intro to Data Structures	3.000	3.000	B	9.000
M E 306	Mechanics of Materials	3.000	3.000	AB	10.500
M E 307	x Mechanics of Materials Lab	1.000	1.000	AB	3.500
M E 361	Thermodynamics	3.000	3.000	AB	10.500
PHYSICS 202	PIC General Physics	5.000	5.000	A	20.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Term Summary:		3.472	18.000	18.000	18.000
Adv Stg Term Summary:			0.000	0.000	0.000
Combined Term Summary:		3.472	18.000	18.000	18.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Cum Summary:		3.159	63.000	63.000	63.000
Adv Stg Cum Summary:			29.000	29.000	0.000
Combined Cum Summary:		3.159	92.000	92.000	63.000

Term Honor: Dean's Honor List

Academic Standing Effective 05/15/2016: Good Academic Standing

Summer 2016

Program: General Engineering
Major: Intended: Mechanical Engr
Program: Certificates - Undergraduate
Certificate: Computer Sciences Cert

Session: DDD (06/13/2016 - 07/10/2016)

Course	Description	Attempted	Earned	Grade	Points
E ASIAN 123	EC Elementary Japanese	3.000	3.000	A	12.000
Session: DHH (06/13/2016 - 08/07/2016)					
Course	Description	Attempted	Earned	Grade	Points
COMP SCI 540	NAC Intro-Artifical Intelligence	3.000	3.000	AB	10.500
M E 491	Mech Engr Projects I	3.000	3.000	A	12.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Term Summary:		3.833	9.000	9.000	9.000
Adv Stg Term Summary:			0.000	0.000	0.000
Combined Term Summary:		3.833	9.000	9.000	9.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Cum Summary:		3.243	72.000	72.000	72.000
Adv Stg Cum Summary:			29.000	29.000	0.000
Combined Cum Summary:		3.243	101.000	101.000	72.000

Fall 2016-2017

Program: Mechanical Engineering
Major: Mechanical Engineering BS
Program: Certificates - Undergraduate
Certificate: Computer Sciences Cert

Session: Regular (09/06/2016 - 12/15/2016)

Course	Description	Attempted	Earned	Grade	Points
E C E 376	Electric&Electronc Circuit	3.000	3.000	A	12.000
M E 313	Manufacturing Processes	3.000	3.000	B	9.000
M E 331	Geom Modeling-Engr Applcatn	3.000	3.000	AB	10.500
M E 363	Fluid Dynamics	3.000	3.000	AB	10.500
STAT 224	NIC r Intro Stats for Engineers	3.000	3.000	A	12.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Term Summary:		3.600	15.000	15.000	15.000
Adv Stg Term Summary:			0.000	0.000	0.000
Combined Term Summary:		3.600	15.000	15.000	15.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Cum Summary:		3.305	87.000	87.000	87.000
Adv Stg Cum Summary:			29.000	29.000	0.000
Combined Cum Summary:		3.305	116.000	116.000	87.000

Term Honor: Dean's Honor List

Academic Standing Effective 12/24/2016: Good Academic Standing

Spring 2016-2017

Program: Mechanical Engineering
Major: Mechanical Engineering BS
Program: Certificates - Undergraduate
Certificate: Computer Sciences Cert

Session: Regular (01/17/2017 - 05/04/2017)

Course	Description	Attempted	Earned	Grade	Points
E C E 377	Elec&Elec-mech Power Conver	3.000	3.000	AB	10.500
M E 340	Intro to Dynamic Systems	3.000	3.000	A	12.000
M E 364	Elementary Heat Transfer	3.000	3.000	A	12.000
M E 368	Engr Measure & Instrumentation	4.000	4.000	B	12.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Term Summary:		3.577	13.000	13.000	13.000
Adv Stg Term Summary:			0.000	0.000	0.000
Combined Term Summary:		3.577	13.000	13.000	13.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Cum Summary:		3.340	100.000	100.000	100.000
Adv Stg Cum Summary:			29.000	29.000	0.000
Combined Cum Summary:		3.340	129.000	129.000	100.000

Term Honor: Dean's Honor List

Academic Standing Effective 05/13/2017: Good Academic Standing

Undergraduate-Unofficial Transcript

Name: Chan,Jason
SIS ID: 0005210445

Summer 2017

Program: Mechanical Engineering
Major: Mechanical Engineering BS
Program: Certificates - Undergraduate
Certificate: Computer Sciences UCrt

Session: DHH (06/19/2017 - 08/13/2017)

Course	Description	Attempted	Earned	Grade	Points
GEN BUS 310	SIC Acctg&Finance - Non-Bus Majors	3.000	3.000	AB	10.500
M E 342	Design of Machine Elements	3.000	3.000	A	12.000
M E 370	Energy Systems Laboratory	3.000	3.000	A	12.000
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
	UW-Madison Term Summary:	3.833	9.000	9.000	34.500
	Adv Stg Term Summary:		0.000	0.000	0.000
	Combined Term Summary:	3.833	9.000	9.000	34.500
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
	UW-Madison Cum Summary:	3.381	109.000	109.000	368.500
	Adv Stg Cum Summary:		29.000	0.000	0.000
	Combined Cum Summary:	3.381	138.000	109.000	368.500

Fall 2017-2018

Program: Mechanical Engineering
Major: Mechanical Engineering BS
Program: Certificates - Undergraduate
Certificate: Computer Sciences UCrt

Session: Regular (09/06/2017 - 12/13/2017)

Course	Description	Attempted	Earned	Grade	Points
E C E 252	ECx Intro to Computer Engineering	2.000	2.000	AB	7.000
E P D 397	b Technical Communication	3.000	3.000	AB	10.500
M E 314	I Manufacturing Fundamentals	3.000	3.000	B	9.000
M E 351	Interdis Exper Dsgn Projects I	3.000	3.000	A	12.000
PSYCH 456	SAC Intro-Social Psychology	4.000	4.000	BC	10.000
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
	UW-Madison Term Summary:	3.233	15.000	15.000	48.500
	Adv Stg Term Summary:		0.000	0.000	0.000
	Combined Term Summary:	3.233	15.000	15.000	48.500
	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
	UW-Madison Cum Summary:	3.363	124.000	124.000	417.000
	Adv Stg Cum Summary:		29.000	0.000	0.000
	Combined Cum Summary:	3.363	153.000	124.000	417.000

Academic Standing Effective 12/24/2017: Good Academic Standing

Spring 2017-2018

Program: Mechanical Engineering
Major: Mechanical Engineering BS
Program: Certificates - Undergraduate
Certificate: Computer Sciences UCrt

Session: Regular (01/23/2018 - 05/04/2018)

Course	Description	Attempted	Earned	Grade	Points
COMP SCI 559	IC Computer Graphics	3.000	3.000	BC	7.500
M E 352	Interdis Exper Dsgn Projects II	3.000	3.000	A	12.000
M E 564	Heat Transfer	3.000	3.000	A	12.000
M S & E 553	Nanomaterials & Nanotechnology	3.000	3.000	B	9.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
	UW-Madison Term Summary:	3.375	12.000	12.000	40.500
	Adv Stg Term Summary:		0.000	0.000	0.000
	Combined Term Summary:	3.375	12.000	12.000	40.500

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
	UW-Madison Cum Summary:	3.364	136.000	136.000	457.500
	Adv Stg Cum Summary:		29.000	0.000	0.000
	Combined Cum Summary:	3.364	165.000	136.000	457.500

Academic Standing Effective 05/13/2018: Good Academic Standing

Undergraduate Career Totals
Advanced Standing Credits: 29.000
Cum Credits: 165.000
Cum GPA Credits: 136.000
Cum Grade Points: 457.500
GPA: 3.364

Non-Course Milestones

Program: Mechanical Engineering
Engineering Progression Requirement Milestone
Status: Completed
Date Completed: 12/22/2014

Memoranda

05-23-2016
Grade changed in M E 307 (1164) from B to AB
work completed: 2016-05-21

End of Undergraduate-Unofficial Transcript

Graduate-Unofficial Transcript

Name: Chan,Jason
 SIS ID: 0005210445

Campus ID: 9070373957

Birthdate: 09/09/1995
 Print Date: 08/23/2023
 Institution Info: University of Wisconsin-Madison
 Other Institutions Attended: Culver Academies Culver, IN USA

Degrees Awarded

Degree: Bachelor of Science-Mechanical Engineering
 Confer Date: 05/13/2018
 Degree GPA: 3.364
 Major: Mechanical Engineering
 Degree: Master of Science-Mechanical Engineering
 Confer Date: 05/10/2020
 Major: Mechanical Engineering

Beginning of Graduate Record**Summer 2018**

Program: Mechanical Engineering
 Major: Mechanical Engineering MS

Session: DHH (06/18/2018 - 08/12/2018)

Course	Description	Attempted	Earned	Grade	Points
M E 790	Master's Research & Thesis	2.000	2.000	S	0.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Term Summary:		0.000	2.000	2.000	0.000
Adv Stg Term Summary:			0.000	0.000	0.000
Combined Term Summary:		0.000	2.000	2.000	0.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Cum Summary:		0.000	2.000	2.000	0.000
Adv Stg Cum Summary:			0.000	0.000	0.000
Combined Cum Summary:		0.000	2.000	2.000	0.000

Fall 2018-2019

Program: Mechanical Engineering
 Major: Mechanical Engineering MS
 Program: Materials Science and Engr
 Major: Materials Science and Engr MS

Session: Regular (09/05/2018 - 12/12/2018)

Course	Description	Attempted	Earned	Grade	Points
M E 561	Intermediate Thermodynamics	3.000	3.000	A	12.000
M E 790	Master's Research & Thesis	5.000	5.000	S	0.000
M E 903	Graduate Seminar	0.000	0.000	S	0.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Term Summary:		4.000	8.000	8.000	3.000
Adv Stg Term Summary:			0.000	0.000	0.000
Combined Term Summary:		4.000	8.000	8.000	3.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Cum Summary:		4.000	10.000	10.000	3.000
Adv Stg Cum Summary:			0.000	0.000	0.000
Combined Cum Summary:		4.000	10.000	10.000	3.000

Spring 2018-2019

Program: Mechanical Engineering
 Major: Mechanical Engineering MS
 Program: Materials Science and Engr
 Major: Materials Science and Engr MS

Session: Regular (01/22/2019 - 05/03/2019)

Course	Description	Attempted	Earned	Grade	Points
M E 563	Intermediate Fluid Dynamics	3.000	3.000	B	9.000
M E 759	HPC for Apps in Engr	3.000	3.000	A	12.000
M E 790	Master's Research & Thesis	5.000	5.000	S	0.000
M E 903	Graduate Seminar	0.000	0.000	S	0.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Term Summary:		3.500	11.000	11.000	6.000
Adv Stg Term Summary:			0.000	0.000	0.000
Combined Term Summary:		3.500	11.000	11.000	6.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Cum Summary:		3.667	21.000	21.000	9.000
Adv Stg Cum Summary:			0.000	0.000	0.000
Combined Cum Summary:		3.667	21.000	21.000	9.000

Summer 2019

Program: Mechanical Engineering
 Major: Mechanical Engineering MS
 Program: Materials Science and Engr
 Major: Materials Science and Engr MS

Session: DHH (06/17/2019 - 08/11/2019)

Course	Description	Attempted	Earned	Grade	Points
M E 790	Master's Research & Thesis	3.000	3.000	S	0.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Term Summary:		0.000	3.000	3.000	0.000
Adv Stg Term Summary:			0.000	0.000	0.000
Combined Term Summary:		0.000	3.000	3.000	0.000
		<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>
UW-Madison Cum Summary:		3.667	24.000	24.000	9.000
Adv Stg Cum Summary:			0.000	0.000	0.000
Combined Cum Summary:		3.667	24.000	24.000	9.000

Fall 2019-2020

Program: Mechanical Engineering
 Major: Mechanical Engineering MS
 Program: Materials Science and Engr
 Major: Materials Science and Engr MS

Session: Regular (09/04/2019 - 12/11/2019)

Course	Description	Attempted	Earned	Grade	Points
M E 540	Exp Vib & Dynamic Sys Anal	3.000	3.000	A	12.000
M E 573	Computational Fluid Dynamics	3.000	3.000	A	12.000
M E 790	Master's Research & Thesis	5.000	5.000	S	0.000

Graduate-Unofficial Transcript

Name: Chan,Jason
SIS ID: 0005210445

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	4.000	11.000	11.000	6.000	24.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	4.000	11.000	11.000	6.000	24.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.800	35.000	35.000	15.000	57.000
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.800	35.000	35.000	15.000	57.000

Spring 2019-2020

Program: Mechanical Engineering
Major: Mechanical Engineering MS
Program: Materials Science and Engr
Major: Materials Science and Engr MS

Session: Regular (01/21/2020 - 05/01/2020)

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>	<u>Points</u>
M E 790	Master's Research & Thesis	9.000	9.000	S	0.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	0.000	9.000	9.000	0.000	0.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	0.000	9.000	9.000	0.000	0.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.800	44.000	44.000	15.000	57.000
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.800	44.000	44.000	15.000	57.000

Spring 2020-2021

Program: Mechanical Engineering
Major: Mechanical Engineering PHD

Session: Regular (01/25/2021 - 04/30/2021)

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>	<u>Points</u>
MATH 704	Methods of Applied Math-2	3.000	0.000	DR	0.000

Course Dropped: 02/10/2021

M E 764	Heat Transfer I-Conduction	3.000	3.000	A	12.000
M E 890	PhD Research and Thesis	5.000	0.000	P	0.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	4.000	8.000	3.000	3.000	12.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	4.000	8.000	3.000	3.000	12.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.833	52.000	47.000	18.000	69.000
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.833	52.000	47.000	18.000	69.000

Summer 2021

Program: Mechanical Engineering
Major: Mechanical Engineering PHD

Session: DHH (06/14/2021 - 08/08/2021)

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>	<u>Points</u>
M E 890	PhD Research and Thesis	3.000	0.000	P	0.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	0.000	3.000	0.000	0.000	0.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	0.000	3.000	0.000	0.000	0.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.833	55.000	47.000	18.000	69.000
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.833	55.000	47.000	18.000	69.000

Fall 2021-2022

Program: Mechanical Engineering
Major: Mechanical Engineering PHD

Session: Regular (09/08/2021 - 12/15/2021)

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>	<u>Points</u>
M E 601	Special Topics-Mech Engr	3.000	3.000	A	12.000

M E 890	Course Topic: Fund of Precision Measurements PhD Research and Thesis	5.000	0.000	P	0.000
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	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	4.000	8.000	3.000	3.000	12.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	4.000	8.000	3.000	3.000	12.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.857	63.000	50.000	21.000	81.000
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.857	63.000	50.000	21.000	81.000

Spring 2021-2022

Program: Mechanical Engineering
Major: Mechanical Engineering PHD

Session: Regular (01/25/2022 - 05/06/2022)

<u>Course</u>	<u>Description</u>	<u>Attempted</u>	<u>Earned</u>	<u>Grade</u>	<u>Points</u>
E M A 476	PICx Intro-Sci Comput for Engr Phys	3.000	3.000	AB	10.500

M E 777	x Vacuum Technology	3.000	3.000	AB	10.500
M E 890	PhD Research and Thesis	3.000	0.000	P	0.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Term Summary:	3.500	9.000	6.000	6.000	21.000
Adv Stg Term Summary:		0.000	0.000	0.000	0.000
Combined Term Summary:	3.500	9.000	6.000	6.000	21.000

	<u>GPA</u>	<u>Attempted</u>	<u>Earned</u>	<u>GPA Units</u>	<u>Points</u>
UW-Madison Cum Summary:	3.778	72.000	56.000	27.000	102.000
Adv Stg Cum Summary:		0.000	0.000	0.000	0.000
Combined Cum Summary:	3.778	72.000	56.000	27.000	102.000

Graduate-Unofficial Transcript

Name: Chan,Jason
SIS ID: 0005210445

Summer 2022

Program: Mechanical Engineering
Major: Mechanical Engineering PHD

Session: DHH (06/20/2022 - 08/14/2022)

Course	Description	Attempted	Earned	Grade	Points
M E 890	PhD Research and Thesis	2.000	0.000	P	0.000
	GPA	Attempted	Earned	GPA Units	Points
	UW-Madison Term Summary:	0.000	2.000	0.000	0.000
	Adv Stg Term Summary:	0.000	0.000	0.000	0.000
	Combined Term Summary:	0.000	2.000	0.000	0.000
	GPA	Attempted	Earned	GPA Units	Points
	UW-Madison Cum Summary:	3.778	74.000	56.000	27.000
	Adv Stg Cum Summary:	0.000	0.000	0.000	0.000
	Combined Cum Summary:	3.778	74.000	56.000	27.000

Fall 2022-2023

Program: Mechanical Engineering
Major: Mechanical Engineering PHD

Session: Regular (09/07/2022 - 12/14/2022)

Course	Description	Attempted	Earned	Grade	Points
E C E 888	x Topics in Math Data Science	3.000	3.000	A	12.000
M E 890	PhD Research and Thesis	3.000	0.000	P	0.000
PHYSICS 625	PAC Applied Optics	4.000	4.000	A	16.000
	GPA	Attempted	Earned	GPA Units	Points
	UW-Madison Term Summary:	4.000	10.000	7.000	28.000
	Adv Stg Term Summary:	0.000	0.000	0.000	0.000
	Combined Term Summary:	4.000	10.000	7.000	28.000
	GPA	Attempted	Earned	GPA Units	Points
	UW-Madison Cum Summary:	3.824	84.000	63.000	34.000
	Adv Stg Cum Summary:	0.000	0.000	0.000	0.000
	Combined Cum Summary:	3.824	84.000	63.000	34.000

Spring 2022-2023

Program: Mechanical Engineering
Major: Mechanical Engineering PHD

Session: Regular (01/24/2023 - 05/05/2023)

Course	Description	Attempted	Earned	Grade	Points
M E 890	PhD Research and Thesis	5.000	0.000	P	0.000
M E 964	Spec Adv Topics-Mech Engr	3.000	3.000	AB	10.500
	Course Topic: Radiation Heat Transfer				
	GPA	Attempted	Earned	GPA Units	Points
	UW-Madison Term Summary:	3.500	8.000	3.000	10.500
	Adv Stg Term Summary:	0.000	0.000	0.000	0.000
	Combined Term Summary:	3.500	8.000	3.000	10.500
	GPA	Attempted	Earned	GPA Units	Points
	UW-Madison Cum Summary:	3.797	92.000	66.000	37.000
	Adv Stg Cum Summary:	0.000	0.000	0.000	0.000
	Combined Cum Summary:	3.797	92.000	66.000	37.000

Summer 2023

Program: Mechanical Engineering
Major: Mechanical Engineering PHD

Session: DHH (06/19/2023 - 08/13/2023)

Course	Description	Attempted	Earned	Grade	Points
M E 990	Dissertator Research&Thesis	3.000	0.000	P	0.000
	GPA	Attempted	Earned	GPA Units	Points
	UW-Madison Term Summary:	0.000	3.000	0.000	0.000
	Adv Stg Term Summary:	0.000	0.000	0.000	0.000
	Combined Term Summary:	0.000	3.000	0.000	0.000
	GPA	Attempted	Earned	GPA Units	Points
	UW-Madison Cum Summary:	3.797	95.000	66.000	37.000
	Adv Stg Cum Summary:	0.000	0.000	0.000	0.000
	Combined Cum Summary:	3.797	95.000	66.000	37.000

Fall 2023-2024

Program: Mechanical Engineering
Major: Mechanical Engineering PHD

Session: Regular (09/06/2023 - 12/13/2023)

Course	Description	Attempted	Earned	Grade	Points
M E 990	Dissertator Research&Thesis	3.000	0.000		0.000
	GPA	Attempted	Earned	GPA Units	Points
	UW-Madison Term Summary:	0.000	3.000	0.000	0.000
	Adv Stg Term Summary:	0.000	0.000	0.000	0.000
	Combined Term Summary:	0.000	3.000	0.000	0.000
	GPA	Attempted	Earned	GPA Units	Points
	UW-Madison Cum Summary:	3.797	98.000	66.000	37.000
	Adv Stg Cum Summary:	0.000	0.000	0.000	0.000
	Combined Cum Summary:	3.797	98.000	66.000	37.000

Graduate Career Totals

Advanced Standing Credits: 0.000
Cum Credits: 66.000
Cum GPA Credits: 37.000
Cum Grade Points: 140.500
GPA: 3.797

Memoranda

04-05-2021
NOTE: A global public health emergency in Spring 2020, Summer 2020, Fall 2020 and Spring 2021 required marked changes to university operations that may have significantly affected student enrollment, learning, and grading.

End of Graduate-Unofficial Transcript