Adam STENSON

PERSONAL INFORMATION

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EDUCATION

University of Rochester, Rochester, NY

DEC 2022	Master of Business Administration Specialization: Technology Consulting Minor: Leadership
MAY 2019	Master of Science in Electrical Engineering Concentration: Computer Design & Computer Engineering Research Focus: Single Flux Quantum Digital Logic
MAY 2018	Bachelor of Arts in Physics Bachelor of Science in Electrical & Computer Engineering Minor in History

Fort Hays State University, Hays, KS

MAY 2014	Kansas Academy of Mathematics and Science

RESEARCH EXPERIENCE

Modeling Josephson Junctions in LTSpice for Use in Superconducting Single Photon Detector Readout Systems

APR 2019 MAY 2018	Advisor: Dr. Roman Sobolewski, University of Rochester Thesis

Experimentally Determining the Accuracy of a 3D Printed 80 Sappho Asteroid Model

MAY 2014 MAY 2013	Advisor: Dr. Paul Adams, Fort Hays State University Paper | Poster

HONORS AND AWARDS

University of Rochester

MAY 2018	Excellence in Undergraduate Teaching, Department of Physics & Astronomy

Fort Hays State University

MAY 2014	1st Place: KAMS Division, Scholarly and Creative Activities Day Undergraduate Research Poster Contest

TEACHING EXPERIENCE

Department of Electrical & Computer Engineering, University of Rochester

MAY 2019 AUG 2018	Graduate Teaching Assistant - Continued the responsibilities of the undergraduate position - Courses Taught:

- ECE 101, Introduction to Computing Systems: Fall 2018
- ECE 112, Digital Logic Design: Spring 2019 (Head TA)
- ECE 210, Circuits for Non-Majors: Spring 2019
- ECE 230, Electromagnetic Waves: Fall 2018

MAY 2018
JAN 2018 | Undergraduate Teaching Assitant
- Lead workshops and/or laboratory sessions on a weekly basis
- Grade homework assignments and laboratory reports
- Assist the professor with proctoring and grading exams when needed
- Course Taught:
- ECE 112, Digital Logic Design: Spring 2018

Department of Physics & Astronomy, University of Rochester

MAY 2019
AUG 2018 | Graduate Teaching Intern
- Continued the responsibilities of the undergraduate position with an increased number of students
- Courses Taught:
- PHY 121, Mechanics: Spring 2019
- PHY 122, Electricity & Magnetism: Fall 2018

MAY 2018
JAN 2015 | Undergraduate Teaching Intern
- Lead weekly workshop/recitation
- Grade weekly homework assignments
- Proctor and grade exams 1-2 times per semester
- Courses Taught:
- PHY 121, Mechanics: Spring 2015, 2016, 2017, 2018
- PHY 122, Electricity & Magnetism: Fall 2016, 2017
- AST 106, The Solar System & It's Origins: Fall 2015

WORK EXPERIENCE

ALSTOM Signaling Inc

Current
NOV 2023 | Safety Assurance Engineer
- Assist in validation of CityFlo 550 and 650 project software baselines
- Participate in safety reviews
- Document safety hazards and hazard mitigation

NOV 2023
JAN 2023 | Product V&V Designer (ACSES)
- Created automated test scripts to verify the functionality and safety impacts of product changes
- Executed regular regression testing to ensure safe train behaviour in varied circumstances
- Created and maintained GitLab automation for test result analytics
- Acted as a substitute Scrum Master

DEC 2022
Jun 2021 | Software Designer (ACSES)
- Performed code maintenance and upgrades to meet customer needs
- Perform verification & validation activities though automated test scripts
- Acted as a substitute Scrum Master

JUN 2021
JUN 2019 | Engineering Leadership Rotational Program
- Rotational program to provide a system level understanding of Alstom products and
interdisciplinary experience beneficial to engineering project management.
- Rotations:
- Software (June 2019 - January 2020)
- Hardware (January 2020 - July 2020)
- Verification & Validation (July 2020 - December 2020)
- Process Improvement (January 2021 - June 2021)

AS&E Information Technology Center, University of Rochester

JUN 2019 MAY 2017	**Head Student Supervisor** - Interviewed job applicants and make hiring suggestions to full-time staff - Manageed the student lead team and assist the full-time staff managers in the general management of the IT Center - Oversaw the internal web development team - Continued to complete the tasks listed under ResNet Consultant 3
MAY 2018 DEC 2017	**Web Developer** - Updated and maintained the internal IT website that tracks employees, schedules, loaners, meetings, and appointments - Assisted in the training of new team members
MAY 2017 MAY 2016	**ResNet Lead, Technical Training Coordinator** - Interviewed job applicants and make hiring suggestions to full-time staff - Planned and executed technical training events and evaluations for the student staff - Assisted the full-time staff supervisors in the general management of the IT Center - Continued to complete the tasks listed under ResNet Consultant 3
MAY 2016 AUG 2015	**ResNet Consultant, Level 3** - Handled more complex troubleshooting tickets - Assisted the student leadership in the training and evaluation of new employees - Continued to complete the tasks listed under ResNet Consultant 1
AUG 2015 AUG 2014	**ResNet Consultant, Level 1** - Performed routine software and hardware troubleshooting for faculty, staff, and student computers and phones - Removed malware and spyware from customer devices - Helped students troubleshoot the wired internet connections in their dorm rooms

Department of History, University of Rochester

MAY 2018 AUG 2015	**Office Assistant, Website Management** - Managed the department website - Assisted staff members and faculty with routine office work

University Honors Initiatives, Fort Hays State University

MAY 2014 AUG 2013	**Administrative Assistant to the Director of University Honors Initiatives** - Served as Administrative Assistant for the Fort Hays State Honor Society - Helped lay the ground work for the Honors College created at Fort Hays State University the year after my graduation - Maintained the website for the Distinguished Scholars' Program - Performed office tasks for the Director pertaining to the courses he taught

Science & Mathematics Education Institute, Fort Hays State University

MAY 2014 MAY 2013	**Makerspace Coordinator** - Setup the new makerspace at Fort Hays State University - Maintained the makerspace equipment including three 3D printers - Developed and executed programs for area elementary school students - Assisted students that used the space for research projects

COURSEWORK

Bachelor of Arts in Physics
Only relevant courses listed.

PHY 217	Electricity & Magnetism 1
PHY 218	Electricity & Magnetism 2

PHY 227   Thermodynamics & Statistical Mechanics
PHY 235   Classical Mechanics
PHY 237   Quantum Mechanics of Physical Systems
PHY 243   Advanced Experimental Techniques 1
PHY 256   Computational Physics

Bachelor of Science in Electrical & Computer Engineering

Only relevant courses listed.

ECE 111   Introduction to Signals & Circuits
ECE 112   Logic Design
ECE 113   Circuits & Signals
ECE 200   Computer Organization
ECE 206   Introduction to Parallel Computation using GPUs
ECE 216   Microprocessors & Data Conversion
ECE 221   Electronic Devices & Circuits
ECE 222   Integrated Circuits
ECE 241   Signals
ECE 242   Communications Systems

Master of Science in Electrical Engineering

ECE 401   Advanced Computer Architecture
ECE 406   Multiprocessor Architecture
ECE 461   Introduction to VLSI
ECE 469   High Speed Integrated Circuits: Electronics and Photonics

Master of Business Administration

ACC 401   Corporate Financial Accounting
CIS 401   Information Systems for Management
CIS 415   Business Process Analysis & Design
CIS 417   Introduction to Business Analytics
CIS 418   Advanced Business Modeling and Analysis
CIS 461   Strategy and Business Systems Consulting Practicum
FIN 402   Capital Budget & Corporate Objectives
GBA 401   Structured Problem Solving
GBA 411   Business Modeling
GBA 412   Data Analytics
GBA 436   Predictive & Causal Analytics
GBA 441   Business Ethics and Corporate Social Responsibility
MKT 402   Marketing Management
OMG 402   Operations Management
OMG 415   Process Improvement
OMG 416   Project Management
STR 401   Managerial Economics
STR 421   Competitive Strategy
STR 422   Game Theory for Managers
STR 427   Organizational Behavior
STR 440   Corporate Governance

COMPUTER SKILLS

Operating Systems:	Windows 7/8/10, macOS, Debian based Linx OS
Programming Languages:	C++, Python, HTML/CSS, JavaScript, Verilog, VHDL
Other:	Microsoft Office, Apple iWork, Mathematica, LaTeX