Shwe Myat Myo Oo, EIT, LEED AP BD+C

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Education

Northeastern University, Boston, MA

Master of Science in Energy Systems

- Georgia Institute of Technology, Atlanta, GA
 - Bachelor of Science in Mechanical Engineering (Dean's List)
 - Business certificate in Entrepreneurship (Scheller College of Business)

Certificates and Skills		
Certificates:	Engineer-In-Training (EIT), LEED AP BD+C, Certified SolidWorks Associate (CSWA), Introduction to Computational Fluid Dynamics (ASME EL 513)	
Mechanical Engineering:	Computational Fluid Dynamics, Finite Element Analysis, Thermal Analysis, Machine Design, Renewable Energy System Design, Design Research	
Languages:	Burmese—native, Japanese—conversational	
Programming Languages:	Python, MATLAB	
Hardware:	3D printer, mill, lathe, laser cutter, drill press, band-saw, soldering equipment, power tools, laser thermometer, lux meter, breadboard circuit building, function generator, oscilloscope, multi-meter, Scanning Electron Microscope	
Software:		
Computer Aided Design: Building Systems Simulation: Simulation: Engineering Computation: Applications: Web Design:	Autodesk Revit, AutoCAD, SolidWorks Carrier HAP, eQuest, DesignBuilder, DuctSize, FluidFlow, CHVAC ANSYS Mechanical, ANSYS Fluent MATLAB, Engineering Equation Solver (EES) Microsoft Office Suite (Word, Excel, PowerPoint, Access, OneNote, Outlook), Google collaboration packages (Docs, Sheets, Slides), Trello, Slack WordPress	
Communication:	Technical Reports, Oral Presentations, Public Speaking, Team Leadership	

Experience

AHA Consulting Engineers

Mechanical Design Engineer, Energy Modeler

- Designed HVAC systems for various projects such as healthcare facilities, academic institutions, biotechnology labs, and other use cases, including ductwork, piping, equipment layout, cooling and heating load calculations, and equipment sizing
- Prepared engineering studies, schematic design, and design development documents for new systems in consultation with lead engineer
- Created energy models for LEED certification and tax rebate incentives referencing ASHRAE 90.1 Appendix G
- Performed site visits to client sites to evaluate existing systems

Roland Berger

Consulting Intern

- Collaborated with partners, managers, senior consultants, and Yangon government officials to finalize a Swiss Challenge tender process for the New Yangon City (NYC) industrial park project with an investment target of \$1.5 billion
- Performed vendor due diligence assignments with supervision of senior consultant for the acquisition of a multinational company in Asia specializing in distribution/mailroom services, cash management, and records management
- Performed translation work (English to Burmese and vice versa) on an end-user handset survey for a telecom project with a Japanese multinational company

Winter ACMV Co., Ltd,

Lead Engineer—Technical Development Division

- Designed HVAC systems for 4 high-rise building projects such as offices and hospitals with gross floor area over 600,000 ft² to comply with building/project requirements, including load calculations, equipment selection and sizing, mechanical equipment room design, duct and piping design and layout for development of HVAC plans
- Developed a custom software package over 6 months to calculate capacity loss for a heat pump of arbitrary cooling capacity operating under non-rated conditions with refrigerants R22 or R134a, reducing maintenance costs from inaccurate benchmarks by 20% and resulting in over \$100k in savings

Feb 2017-Aug 2019

Jan 2021-Apr 2021

Jan 2022-Present

Sep 2019-Dec 2021

Aug 2012-Dec 2016

- Leveraged commercial computational fluid dynamics (CFD) software packages to analyze building ventilation systems for energy efficiency and optimization, increasing client cost savings by up to \$75,000
- Automated calculation of staircase pressurization requirements for high-rise buildings with Excel as specified in ASHRAE and local standards, reducing calculation time by 50%
- Taught and supervised usage of commercial and custom HVAC software solutions to cross-functional team of 4 engineers for 8 months
- Coordinated air washer and chiller equipment installation and troubleshooting inspections in 1 textile factory and 2 hospitals

May 2016-July 2016

Sept 2012 - Dec 2013

• Improved team workflow by applying Kanban principles via Trello, increasing work efficiency by up to 30%

Winter ACMV Co., Ltd

CAD Drafting and Equipment Testing Intern (Georgia Tech Global Internship Program)

- Conducted troubleshooting analysis of 200 RT chiller plant equipment at field testing sites and produced inspection reports
- Performed design work and CAD drafting for HVAC system sizing and duct runs in a 300,000 ft² high-rise building project
- Rebuilt and launched company website, resulting in a 15% increase in site exposure

Projects, Leadership, and Research

Northeastern University Sustainable Building Organization (NUSBO)	Sep 2019-Apr 2020
Student Representative	
Represented NUSBO at biweekly campus-wide sustainability meetings	
• Coordinated with 6 other team members in weekly meeting setup and attendance tracking for	over 30 team members
Students for the Exploration and Development of Space (SEDS)	Sep 2019-Dec 2019
Northeastern University CubeSat Team Member	-
• Collaborated with team of 20 from Tufts, MIT, and NEU to meet individual project deadlines	on time and under budget
• Taught thermal simulation to NEU team of 5 and applied thermal design concepts to nanosate	ellite design
Myanmar National Building Code (MNBC) Working Committee	Jan 2019-Feb 2019
Technical Contributor	
Collaborated with 3 other reviewers in evaluating HVAC systems section	
Proposed 21 actionable code amendments and clause additions and presented proposal to tech	inical working committee
Capstone Design Course at Georgia Tech (ME 4182)	Aug 2016 - Dec 2016
Team Leader	-
 Invented a hand tool with team of 6 to augment setting and application of e-clips in rail constr for corporate sponsor CSX Transportation 	ruction and maintenance work

• Won 'Best Overall Project in Mechanical Engineering' award at GT Capstone Design Expo with \$1000 cash reward

Georgia Tech Solar Racing

Team member

- Performed inertial and braking calculations for street-legal solar powered race car
- Assisted team leaders in testing solar panel and powertrain performance