

Shwe Myat Myo Oo

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Education

Northeastern University, Boston, MA

Sep 2019-Dec 2021

- Master of Science in Energy Systems

GPA: 3.52/4.00

Georgia Institute of Technology, Atlanta, GA

Aug 2012-Dec 2016

- Bachelor of Science in Mechanical Engineering (Dean's List)
- Business certificate in Entrepreneurship (Scheller College of Business)

Certificates and Skills

Certificates:

Certified SolidWorks Associate (CSWA), LEED Green Associate, Introduction to Computational Fluid Dynamics (ASME EL 513), A Hands-On Introduction to Engineering Simulations (ENGR2000X on edX), Introduction to Computer Science and Programming (MITx 6.00.1x on edX)

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, Arduino

Software:

Computer Aided Design: AutoCAD, Inventor, SolidWorks, Revit
Building Systems Simulation: DesignBuilder, DuctSize, FluidFlow, Carrier HAP, CHVAC, EnergyPlus
Simulation: ANSYS Mechanical, ANSYS Fluent
Engineering Computation: MATLAB, Engineering Equation Solver (EES)
Project Management: MS Project, Trello
Applications: Microsoft Office Suite (Word, Excel, PowerPoint, Access, OneNote, Outlook), MS SharePoint, Google collaboration packages (Docs, Sheets, Slides), Trello, Slack
Web Design: WordPress

Communication:

Technical Reports, Oral Presentations, Public Speaking, Team Leadership

Experience

Roland Berger

Jan 2021-Apr 2021

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, Yangon, Myanmar

Feb 2017-Aug 2019

Lead Engineer—Technical Development Division

- Designed HVAC systems for 4 high-rise building projects including 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
- 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
- Improved team workflow by applying Kanban principles via Trello, increasing work efficiency by up to 30%

Winter ACMV Co., Ltd, Yangon, Myanmar

May 2016-July 2016

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 nanosatellite 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 technical 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 construction and maintenance work for corporate sponsor CSX Transportation
- Won 'Best Overall Project in Mechanical Engineering' award at GT Capstone Design Expo with \$1000 cash reward