

Mina Mikaeel



Mina Mikaeel was born in Cairo, Egypt and earned his Bachelor of Science in mechanical engineering with distinction in the Faculty of Engineering's Energy Department at Ain Shams University. He then joined the university as a teaching assistant while working as a system design engineer for Heating Ventilation and Air Conditioning (HVAC) systems.

In 2005, Mina entered the Royal Institute of Technology (KTH) in Stockholm, Sweden. At KTH, he pursued his master's degree in the International Sustainable Energy Engineering Program. In spring 2006, he was awarded a scholarship to attend the World Bio-energy Conference in Jönköping, Sweden. That same year, Mina completed a traineeship for three months at ECopeland, a compressor manufacturer in Welkenraedt, Belgium. At ECopeland, he worked on increasing heat pump energy efficiency through modeling and optimization.

KTH awarded Mina his Master of Science degree in spring 2007. That fall, he worked as a research engineer in KTH's Laboratory of Applied Thermodynamics and Refrigeration. His work centered on testing compressors with natural refrigerants.

Mina was awarded an International Fulbright Science and Technology Award in fall 2008 to pursue his doctoral studies in the Mechanical Science and Engineering Department at the University of Illinois at Urbana-Champaign. At Illinois, he investigates enhanced surfaces for transferring boiling heat.

Mina's primary goal, which has shaped both his academic and professional trajectories, is to mitigate global warming's impact by improving the efficiency of energy utilization systems.