

# Ramy Khalid Z. El Adli Imam

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U.S. Citizen

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## EDUCATION

- **Masters of Science, Mechanical Engineering** GPA: 4.0/4.0 Aug 16 - May 18  
Georgia Institute of Technology (GT), Atlanta, GA
- **Certificate, Corporate Sustainability and Innovation** GPA: 3.9/4.0 Jan 15 - Jan 16  
Harvard University, Cambridge, MA
- **Bachelor of Science, Mechanical Engineering** GPA: 3.7/4.0 Sep 09 - Jun 14  
The American University in Cairo (AUC), Egypt

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## WORK EXPERIENCE

- **Research Assistant, Mechanical Engineering Department, GT, Atlanta, GA** Aug 16 - Present
  - Worked with SolTrace for a Solar Tower application to measure intensity.
  - Designed and constructed a room sized heat exchanger.
  - Developed an apparatus to test pressure drops in particulate flow.
- **Lab Assistant & Engineer, Harvard University, Cambridge, MA** Jun 14 - Feb 16
  - Simulated an airflow through an air knife device to increase air velocity.
  - Taught 30 students and staff how to use and operate equipment.
  - Operated and maintained 20 tools and machinery in the lab.
- **Mechanical Design Engineer, CHT4 Innovation Labs, Cambridge, MA** Jun 14 - Aug 14
  - Collaborated with multidisciplinary professionals to solve solutions.
  - Facilitated the design for several mechanisms of innovative products.
  - Analyzed and helped in redesigning a full passive solar heating system.
- **Research Assistant, Mechanical Engineering Department, MIT, Cambridge, MA** Jul 13 - Aug 13
  - Built a heat exchanger for a probe sampling system to cool flue gases by 200°C.
  - Wrote and presented a technical report of my calculations and results.
- **Observatory Assistant, Harvard Center for Astrophysics, Cambridge, MA** Jun 13 - Aug 13
  - Conducted a research study on the Menzel Gap.
  - Operated photographic and scanning equipment.

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## PUBLICATIONS

- “*Development and Impact of a Data Collection System for Academic Makerspaces*”, **International Symposium on Academic Makerspaces (ISAM) 2017**, [ISAM 2017 Library](#).
- “*Solar Thermal Power Generation Using a Double Concentrator on a Dish Collector*”, **ASME 2014 International Mechanical Engineering Congress**, [Volume 6A: Energy](#).
- “*Design of a Heat Exchanger and a Gas Sampling System for Oxy-fuel Combustion*”, **Academic Journal of Science**, [Volume 3](#).
- “*Solar Thermal Power Generation*”, **Academic Journal of Science**, [Volume 3](#).

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## LEADERSHIP ACTIVITIES

- **Founder & President, Honor Society, GT** Nov 17 - May 18
- **Founder & President, Egyptian Student Association, GT** Feb 17 - May 18
- **Treasurer, ASHRAE, GT** Feb 17 - May 18
- **Founder, President & Coach, Bowling Club, GT** Dec 16 - May 18
- **Lead Member, Council for Grad Life, GT** Sep 16 - Apr 18
- **Secretary, Graduate Student Government Association, GT** Sep 16 - Aug 17
- **Senator, Mechanical Engineering, GT** Aug 16 - Aug 17
- **Founder & Director, F.Y.I Science Magazine, AUC** Feb 14 - Jun 14
- **Student Leader Representative, Board of Trustees, AUC** Feb 13 - Jun 14
- **Lead Member, Sustainable Campus Committee, AUC** Jan 14 - May 14
- **Committee Head, Mechanical Engineering Association, AUC** Feb 13 - May 14
- **Founder & President, Astronomy Club, AUC** Feb 11 - Feb 14

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## SKILLS

- **Programs:** SolidWorks, Working Model, ANSYS (structure and fluent), SolTrace, MITCalc, Matlab, 3DMax, EES, AutoCad, MS Project, Comsol, Google Sketch Up, Photoshop, Corel Video Studio, & C++.
- **Machining Tools:** CNCs, mills, lathes, laser cutters, arc welders, water jet, band saws, grinders, shears, drill presses, chop saws, & 3D printers.
- **Language:** **English** (Fluent), **Arabic** (Fluent), and **French** (Basic)