

# Mahmoud Ibrahim

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## EDUCATION

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- **American University of Beirut - Lebanon** September 2016-May 2020
  - Bachelor of Engineering in **Electrical and Computer Engineering**
  - Minor in **Mathematics**
  - Cumulative GPA: 88, Dean's Honor List.**
  - Relevant Coursework:  
Adaptive Control, Instrumentation, Machine Learning, Data Structures and Algorithms, Control Systems, Computer Networks, Biomedical Signals and Image Processing, Computer Organization I, Signals and Systems, Engineering Economy, Calculus I-IV, Real analysis, Linear Algebra, General Physics, General Chemistry.
- **Politecnico Di Torino - Italy** February 2019-July 2019
  - Courses in Masters of Science in **Mechatronics Engineering**
  - Relevant Coursework:  
Robotics (30/30), Nonlinear Control and Aerospace Application (29/30), Estimation, Filtering and System Identification (30/30)

## SKILLS

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- **Technical Skills:**
  - Experience in:
    - o **Languages:** C++, MATLAB, Python, SQL, Java, HTML, CSS, PHP
    - o **Software:** ROS(Robot Operating System), LabVIEW, Simulink, Linux.
    - o **Machine Learning** :Python Sci-kit learn.
    - o **Data Science:**Data Visualization, Data Analysis, Wrangling, Machine Learning, Probability, Statistics.
    - o **Productivity Tools:** GitHub, git, Unix/Linux, Rstudio
    - o **Hardware:** PLC, Arduino, micro controllers.
  - Excellent science, applied mathematics, engineering, business, financial and active learning skills
- **Language and Communication:**
  - Native Arabic, Professional English, Intermediate French, Basic Italian.
  - Acknowledged for Leadership, Teamwork, and team leading Skills
  - Ability to take judgments and decisions and work under pressure.
  - Impressive communication, interpersonal, and complex problem-solving skills

## WORK HISTORY & PROJECTS

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- **Design of an autonomous boat for water sampling and environmental monitoring:** Fall 2019-Present
  - Make the boat autonomous ready in unstructured environments capable of following pre-determined mission details with a radio control override option.
- **Junior Software Developer** July 2019-September 2019
  - Junior software developer at BankerWay developing on Temenos software .
- **Control of a ROS robot using voice commands:** Spring 2019
  - Control and move multiple TurtleBot3 robots using voice commands.
  - Implementing autonomous navigation on multiple TurtleBot3 robots.
- **Mindsets OLX Datathon** October 2019
  - solving a real-life business case for OLX using OLX real-life data.
- **BMW Group Beirut Hackathon** October 2019

- Machine learning hackathon held in LAU.