# Mahmoud Kraiem

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# Software engineering

## Professional Summary

Curious, ambitious, I wish to write software for humanity.
I majored in embedded systems engineering and have been working on web technologies for over a year and a half and AngularJS since February 2016.
I'd previously worked on several projects covering  ST microcontrollers embedded software, ReSTful APIs (CakePHP and Spring MVC), Android applications and computer vision (JavaCV).

Keywords: HTML, AngularJS, Spring MVC, Oracle PL/SQL, Android, CakePHP, OpenCV

## Language Proficiency

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| **English**: Fluent Certified TOEIC And IELTS GT | **French**: Fluent Certified TCF TP | **Arabic**: Native | **German:** Beginner | **Japanese**: Beginner |

## Work History

**System Engineer – AVIS - Internship**
**Tata Consultancy Services**
(HTML, Bootstrap, Javascript, AngularJS)
**Mumbai, Maharashtra, India**

**Since December 2016**
Overview: working on the technology migration of Avis Budget business management solution's client side application to AngularJS.
Missions :
- write AngularJS controllers and services and remake user screens using Bootstrap.

**System Engineer – APEX - Internship**
**Tata Consultancy Services**
(HTML,AngularJS, Spring, PL/SQL)
**Mumbai, Maharashtra, India**

**February – November 2016**
Overview: working on the technology migration of Apex Car Rental business management solution from Paradox and Delphi to Oracle, Redis, Spring MVC and AngularJS.

Missions :

- develop financial reports generation modules (charts, pdf/xls exports, grids,..)

- help develop the RSA encryption/decryption modules on Spring MVC and on AngularJS

- build RSA keys generation tool on Spring MVC for Java and .NET platforms.

- enable magnetic card reading and manual user input on the same HTML form field using Javascript.

- Write and test Oracle PL/SQL stored procedures.

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| **Mobile solution and web API development - Internship**<br>**Dot It**<br>(Android/CakePHP)<br>**Sousse, Tunisia** | **February - June 2015**<br>Overview: I worked on the design and implementation of an automated parking lots seek and access solution.<br><br>The solution I advised is comprised of two client applications, a web API and a relational database:<br><br>- a mobile application to be used by car drivers looking for a parking lot,<br><br>- a web application to be used by parking lots owners allowing them to monitor activity and sell parking time,<br><br>- a ReSTful web JSON API to answer both applications calls for resources.<br><br>The end result was a working prototype. |
| **Mobile solution development – Internship**<br>**Dot It**<br>(Android/Java)<br>**Sousse, Tunisia** | **August 2014**<br>Overview: Developing a module in an educative app for children under age 5 to teach them calculus.<br>skills upgraded:<br>-Java<br>-Android user interface<br>-Android fragments architecture |
| **Embedded Systems programming - Internship**<br>**Cedac**<br>(Nut/C/C++)<br>**Sousse, Tunisia** | **July 2014**<br>Mission : Developing an embedded user interface for the company's FlexGrid display device<br>Skills upgraded:<br>- Embedded C<br>- User interface using touch screens |
| **Embedded System Design – Internship**<br>**Concebatec**<br>(PIC C/Altium Designer)<br>**Sousse, Tunisia** | **July 2013**<br>Overview: Developing a device that acquires data from multiple sensors and sends an alarm signal via SMS.<br>Skills upgraded:<br>- Altium Designer<br>- Microchip PIC |

## Education

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| **2012 – 2015** | ENISo – National Engineering School of Sousse, Sousse – Tunisia<br>**Electronics Engineering Diploma** |
| **2009 – 2012** | Preparatory Institute for Engineering Studies of Monastir, Tunisia<br>**Preparatory course in Mathematics, Physics and Chemistry** |

## Independent projects

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| Computer Vision<br>**(Java)** | **November 2014**<br>Designing and building a video surveillance device<br><br>Hardware: USB camera, Raspberry Pi<br>Software: Motion (a Linux daemon), PuTTY, Java (JavaCV/OpenCV). |
| Microcontrollers<br>**(C)** | **April 2014**<br>a digital oscilloscope with a PC interface (STM32, USB VCP, Embedded C, Qt) |

## Activities and Hobbies

Fixing computers, Playing with Open-source software. Reading source code.
Reading about Quantum mechanics, Astrophysics, Biology. Watching Sci-fi. Reading non-fiction.
Coordinator for financial prospection at JEENISo, a student-run junior enterprise
General coordinator of the event JCertif Tunisa 2014, ENISo
Local coordinator of the event TedxENISo 2013