

Yosra Saidane

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Born on : 10/29/1987
Nationality : Tunisian



Professional experience

- **September 2012- January 2014: Assistant, Université Libre de Tunis (ULT)**

Mainly interested in Electrical Circuits, Programming and Signal Processing.

Lectures given on:

- Electrical Circuits
- Algorithmic
- C language
- Computer architecture
- Power electronics

- **January- June 2012 : Embedded systems- Graduation project, Norkatech, Tunisia**

Realization of a firmware allowing to deport the display of a mobile phone on a micro display through a bluetooth connection:

- Study of required product components (SSD1926, PIC24FJ256DA210, JOYSTICK, UART Bootloader, Kopin Display Controller A221, A-Chip)
- Study of the various protocols (UART, SPI, I2C)
- Development of the software for the different components according to their protocols: receiving the image through Bluetooth, check the JPEG format of the image, Image decoding, display the image on the micro display, program interrupts of buttons (UP, DOWN, LEFT, RIGHT, PUSH), program the Bootloader with the UART protocol.
- Test and validation of the software on the electronic card.

- **July 2011 : Intership , KBE ELECTROTECHNIK, Sousse, Tunisia**

Study of a SIEMENS speed variator, selection and configuration of drive parameters for the control of a DC motor

- **February -May 2009: Internship Technician, Tehniques Industrielles et Management (TIM), Tunisia**

Contribution to the improvement of a computer assisted production management (GPAO)

- Study of the ISO 9001
- The development of the dashboard under WINDEV 11: repair the breakdowns by nature, technical specialty, costs, machines, analysis of symptoms causes remedies, analysis of downtime (Synthetic Yield Rate).

- **July 2008: Intership Technician, SLAMA, Tunisia**

Study the maintenance of different engines

Education and degrees

- **Since september 2014 Phd in Information and Communication Technologies (TIC)**

Higher School of Communications of Tunis (SUP'COM)

Thesis: "Detection and analysis of a muscle motor and pre -motor activities"

Abstract: the objective of the thesis is to analyze: i) the effect of the preparation instruction on pre-motor phase. ii) the behavior difference between men and women during pre-motor activity. iii) the effect of mental training on muscle preparation. iiiii) the impact of the preparation warning on the transition phase (it is a short time between the effective preparation and the initiation of movement). iv) the effect of the importance of preparation on muscular performance.

Tools: signal processing, statistical analysis, machine learning

- **June 2012 National Engineering Diploma in electrical engineering and industrial computing**

Université Libre de Tunis (ULT)

- **June 2009 Diploma in automation and industrial computing**

National Institute of Applied Science and Technology (INSAT)

- **June 2006 Scientific Bachelor section mathematics - with honors**

Training

Technical training

- Training in STAPS (université de Paris Ouest Nanterre la Défense) :mastring a new software (SPM ,Matlab) in neuroscience field
- ATSIP2015 Spring school: Advanced Techniques in Medical Imaging

Pedagogical training

- Training session related to " university pedagogy" , ATURED, Tunisia
- Training courses on the following topics (Ecole Privé d'Ingénieurs (EPI) Tunisia):
Preparation and planning of lessons,
Methods, tools and teaching supports,
Preparation, monitoring and evaluation of learning activities,
Oral communication and technical animation,
Preparation and presentation of a lesson
- Training session related to "Real approach to effective teaching; Synergy: capacitation-knowledge" , IPEIT, Tunisia
- " Carrer Building Workshops for STEM Women Scientists" , University of Oregon, USA

Research methodology

- "SpringerLink and scientific publication" workshop , CNUDST, Tunisia

Skills

Programming languages : Matlab/Simulink, Visual C++, Assembleur (μ P/DSP), C/C++, MPLAB, PICC, MikroC, mikroProg Suite For PIC, emu8086, EasyPic 6
Electronic software: PSIM, ISIS
MS Office: Word, Excel, Access, Project, Power Point, Latex
Statistical softwares: SPSS, SIGMA stat

Languages knowledge

Arab: Maternal
French: Fluent
English: Professional
Italian: Notion

Other

Communications

My phd 2016 and 2018 workshop, organized by SUP'COM Tunisia and PASSAU University-Germany.

Oral communication, EMG Signal Analysis for Comprehension of Genders Differences Behavior During Premotor Activity, International Symposium on signal, Image, Video and Communications (ISIVC), 2016, Tunisia.

Oral communication, Advanced technologies for signal and image processing, ATSIP SPRING SCHOOL, 2015.

Publications

Y. Saidane, S. Ben Jebara, T. Driss, and G. De Marco, "Development of EMG indicators for measuring and analyzing pre-motor activity on muscles," in the **3rd International Congress on Sport Science Research and Technology Support (icSPORTS)**, LISBOA, Portugal, November 2015.

Y. Saidane and S. Ben Jebara, "Features selection for analyzing the effect of preparation instruction on forearm muscles during pre-motor activity," **24th European Signal Processing Conference (EUSIPCO)**, Budapest, Hungary, Aout 2016.

Y. Saidane and S. Ben Jebara, "EMG SIGNAL ANALYSIS FOR COMPREHENSION OF GENDERS DIFFERENCES BEHAVIOR DURING PRE-MOTOR ACTIVITY," **8 International Symposium on Signal, Image, Video and Communications (ISIVC)**, Tunis, Tunisia, November 2016.

Y. Saidane and S. Ben Jebara, "The effect of the preparation instruction on the functional connectivity between forearm muscles during movement's initiation", **39th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)**, Jeju island, South corea, july 2017.

Yosra Saidane; Sofia Ben Jebara; Chama Belkhiria; Tarak Driss; Giovanni de Marco, "Study of the Differences between Self-Initiated and Externally-Triggered Mental Pre-Motor Activity and Its Effect on Muscular Activity", (**journal under preparation**).

Chama BELKHIRIA, Tarak Driss, **Yosra SAIDANE**, Sofia BEN JEBARA, David G. Behm and Giovanni de MARCO, "Identification and extraction of EMG descriptors during motor preparation" (**journal under preparation**).

Yosra Saidane; Sofia Ben Jebara; Tarak Driss; Giovanni de Marco, "Differences Between Mental and Physical Preparation of Muscular Contraction: a Pilot Study", (**conference under preparation**).

Exams passed within the PhD program

- Signal processing 1D and 2D
- Optimization
- Probabilities
- Neural network
- Estimation