

BASSEM DAHROUG

PhD, Mechatronics research engineer

dahroug@gmx.comBesançon, France

% https://bdahroug.github.io/

EXPERIENCE

Researcher, Post-doctoral

Institute FEMTO-ST, Dept. AS2M (Automatique et Systèmes Micro-Mécatroniques)

🗎 Sept. 2018 - Sept. 2020

♀ Besançon, France

Participation in the INSERM project "ROBOT" (Robotics and Optical coherence tomography for optical BiOpsy in the digestive Tract)

- design and development of a prototype in order to validate and integrate the distinct technological and methodological proposed by the different project's teams,
- implement a visual servoing scheme based on the 3D imaging (C-scan) obtained from the OCT for guiding a robot during the intra-operative phase in order to perform a repeatable optical biopsy.

Research assistant, PhD student

Institute FEMTO-ST, Dept. AS2M

♀ Besançon, France

Early research stage of the project " μ RMES" (Micro-Robot for Middle Ear Surgery)

- analysis of the clinical need for cholesteatoma surgery,
- development of an image-guided micro-robotic system dedicated to this procedure.

EDUCATION

Ph.D. in Engineering Sciences

UBFC (Université Bourgange Franche-Comté)

10/2014 - 02/2018

P Besançon, France

Dissertation title: Minimally Invasive Surgery in the Middle Ear: a guided micro-robotic system to efficiently remove cholesteatoma.

double degree M.Sc. in Mechatronics and Micro-Mechatronics Systems

ENSMM (Ecole National Supérieur de Mécanique et des Microtechnique) and EPI (Escuela Politécnica de Ingeniería de Gíjon)

1 09/2012 - 09/2014

♀ Besançon, France and Gíjon, Spain

Master thesis title: Design, modelling and control of a contactless modular conveyor.

B.Sc. in Mechanical Engineering

AAST, College of Engineering Studies and Technology, Mechantronics Depart.

1 09/2006 - 09/2001

♀ Alexandria, Egypt

Graduation project title: Mobile robot control for parking manoeuvre.

SKILLS & KNOW-HOW

Mechatronic design
Robotics
Automatic control
Scientific programming
Mechanics
Electronics

Robotic experimentation
Analysis, synthesis and solving problems
Oral and writing communication
Organization, rigor and autonomy
Project Collaboration

COMPUTER SKILLS



LANGUAGES



REFEREES

Prof. Nicolas Andreff

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■ UBFC, Institut FEMTO-ST

Dr. Brahim Tamadazte

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