CURRICULUM VITAE

PERSONAL INFORMATION

Name	**ALESSIO NOCERA**
Address	**VIA CAPRERA 52, 56121 PISA (PI), ITALY (IT)**
Telephone	**+39 3294848703**
E-mail	**alessio.nocera@phd.unipi.it**
	alessionocera@hotmail.it
Gender	Male
Date of birth	MAY 19 1992
Nationality	Italian

WORK EXPERIENCE

• November 2023 –

PH.D. STUDENT

University of Pisa – Department of Information Engineering
Carried out at EndoCAS Research Center, University of Pisa
Research project title: ***"Development of methods and applications for the use of commercial Augmented Reality OST HMD devices for precision applications in peripersonal space"***

• April 2023 – October 2023

RESEARCH FELLOW

University of Pisa – Research Center "E. Piaggio"
Carried out at EndoCAS Center, University of Pisa
"Development of applications using the game engine Unity3D for surgical applications with Augmented Reality visualization"

- Game engine with Integrated Development Environment (IDE) Unity3D
- Integrated Development Environment (IDE) Microsoft Visual Studio
- Head-Mounted Display (HMD) Microsoft HoloLens 2
- C# Scripting

EDUCATION AND TRAINING

• 2023 –

PH.D. IN SMART INDUSTRY   EQF LEVEL 8

University of Pisa – Department of Information Engineering

• 2018 – 2023

MASTER'S DEGREE IN BIOMEDICAL ENGINEERING   EQF LEVEL 7

University of Pisa – Department of Information Engineering
2nd level degree – Master's Degree
Thesis title: ***"Potenzialità del visore Microsoft HoloLens per la simulazione di scenari complessi per il training in ambito sanitario"***

• 2011 – 2018

BIOMEDICAL ENGINEERING   EQF LEVEL 6

University of Pisa – Department of Information Engineering
1st level degree – Degree/Bachelor

PRE-UNIVERSITY STUDIES
Secondary school diploma: Vocational School (other)
School-leaving examination taken in (year): 2011
Italian secondary school diploma

TRAINING COURSES AND CERTIFICATES

• April 2024

UNITY MOBILE AR DEVELOPMENT
Unity Technologies

• November 2023

UNITY VR DEVELOPMENT
Unity Technologies

• June 2023

UNITY JUNIOR PROGRAMMER
Unity Technologies

• April 2023

INDUSTRY 4.0 LEARNING PATH
University of Pisa

• March 2023

UNITY CREATIVE CORE
Unity Technologies

• August 2021

UNITY ESSENTIALS PATHWAY
Unity Technologies

• April 2020

MINI-COURSE MDR 2017/745
Easy Medical Device

• October 2019

III CONGRESSO NAZIONALE IDBN ITALIAN DIGITAL BIOMANUFACTURING NETWORK
IDBN.org

• October 2019

2019 AFRICAN BIOMEDICAL ENGINEERING CONSORTIUM (ABEC) DESIGN SCHOOL
Uganda Industrial Research Institute (UIRI)

• July 2019

STAMPA 4.0 – I EDIZIONE
"Stampa 2D/3D per la realizzazione di prodotti innovativi, sensori, sistemi wearable e dispositive IoT"
University of Pisa

• February 2008

ECDL STANDARD
AICA (Associazione Italiana per l'informatica ed il Calcolo Automatico)

PERSONAL SKILLS

NATIVE

ITALIAN

FOREIGN LANGUAGE(S)

	UNDERSTANDING		SPEAKING		WRITING
	LISTENING	READING	SPOKEN INTERACTION	SPOKEN PRODUCTION	
• English	B2 INDEPENDENT	B2 INDEPENDENT	B2 INDEPENDENT	B2 INDEPENDENT	B2 INDEPENDENT
• French	A2 BASIC	A2 BASIC	A1 BASIC	A1 BASIC	A1 BASIC
• German	A1 BASIC	A1 BASIC	A1 BASIC	A1 BASIC	A1 BASIC
	CLI CERTIFICATE FOR A1 LEVEL (UNIVERSITY OF PISA)				

DIGITAL COMPETENCES

SELF-ASSESSMENT				
INFORMATION PROCESSING	COMMUNICATION	CONTENT CREATION	SAFETY	PROBLEM SOLVING
PROFICIENT USER	PROFICIENT USER	INDEPENDENT USER	PROFICIENT USER	PROFICIENT USER

DIGITAL COMPETENCE: OPERATING SYSTEMS [MICROSOFT WINDOWS, UBUNTU, LINUX, ANDROID] (EXCELLENT), PROGRAMMING LANGUAGES [C/C++, C#, MATLAB] (GOOD), OFFICE TOOL [WORD, EXCEL, POWERPOINT] (EXCELLENT), **CAD SKILLS** [FUSION 360°, SOLIDWORKS] (GOOD), INTERNET SKILLS (EXCELLENT), MULTIMEDIA (GOOD), **PHOTOGRAPHY AND PHOTO-EDITING** [PHOTOSHOP, GIMP] (EXCELLENT), **3D ELABORATION AND MODELLING** [CREO, MESHLAB, BLENDER] (EXCELLENT), **SLICING SOFTWARE** [CURA] (EXCELLENT), **IDE** (UNITY3D, MICROSOFT VISUAL STUDIO] (EXCELLENT)

THEORETICAL AND PRACTICAL KNOWLEDGE OF SOME OF THE MAIN AUGMENTED REALITY AND VIRTUAL REALITY SYSTEMS (HOLOLENS, MAGIC LEAP, OCULUS GUEST, GOOGLE GLASS, PSVR, HTC VIVE)

THEORETICAL KNOWLEDGE OF THE MAIN ROBOTIC SYSTEMS OF SURGICAL AND/OR RADIOLOGICAL ASSISTANCE

HONOR & AWARD

HELGLASK - WEARABLE
Preliminary, conceptual, and theoretical studies. Project designed for participation in the UBORA Design Competition 2020 "Open-source medical technologies for the integral management of COVID-19 pandemia and infectious disease outbreaks"

CERTIFICATE OF PROJECT AWARD
For winning Second Place at the 2019 African Biomedical Engineering Consortium (ABEC) Design School at the Uganda Industrial Research Institute (UIRI)

PRIOR WORK EXPERIENCE

• June 2016 – March 2023

PANE E VINO DI LUGLIANI & C. SNC
Piazza C. Gambacorti 7, Pisa (PI)
• **MENU, PROMOTIONS CREATOR/DESIGNER**
• **WAITER**
• **CLIENTS RECEPTIONS**
• **SUPPORT FOR THE PREPARATION OF DISHES**

DRIVING LICENCE

B

ADDITIONAL INFORMATION

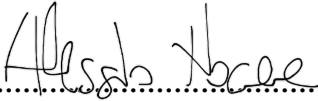
PUBLICATIONS

• *Proof of Concept of Using HoloLens 2 for AR Immersive Training in Complex Medical Scenarios*, accepted at the 2023 IEEE International Conference on Metrology for eXtended Reality, Artificial Intelligence and Neural Engineering (October 2023)

• *Docking of the Da Vinci Surgical Robot Using Mixed Reality*, accepted at the 2023

IEEE International Conference on Metrology for eXtended Reality, Artificial Intelligence and Neural Engineering (October 2023)

CERTIFICATIONS

- Best Live Demonstration at the 2023 IEEE MetroXRAINE
- German language certificate CLI (A1 level)

I hereby authorize the processing of the personal data contained in this CV in compliance with the European Regulation (UE) 2016/679.

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