UNIVERSITA' DEGLI STUDI DI GENOVA
AREA RICERCA, TRASFERIMENTO TECNOLOGICO E TERZA MISSIONE
SERVIZIO RICERCA
SETTORE RICERCA NAZIONALE

IL RETTORE

- Visto il Decreto Rettorale n. 1330 del 19/03/2024, con il quale è stato indetto il concorso, per titoli e colloquio, per il conferimento di n. 1 borsa di ricerca post- laurea di tipo *starting* della durata di 6 mesi, dell'importo di € 6.480,00 (seimilaquattrocentottanta/00), eventualmente rinnovabile, per lo svolgimento di una ricerca sul tema: "Preliminary development of a two-players modular platform in the VR environment", presso il DIBRIS dell'Università degli Studi di Genova;

- Visto il Decreto Rettorale n. 1803 del 11/04/2024 con il quale è stata costituita la Commissione giudicatrice per il conferimento della suddetta borsa di ricerca;

- Visto il verbale della Commissione giudicatrice del concorso in parola, riunitasi in data 15/04/2024;

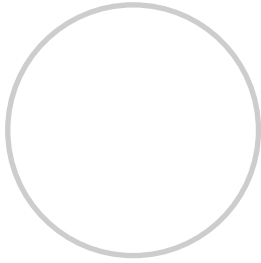- Constatata la regolarità della procedura seguita;

DECRETA

Art. 1

Sono approvati gli atti del concorso di cui in premessa e la seguente graduatoria di merito:

1. Dott. Shayan Balgol   punti 85/100
2. Dott. Mark Henry Dsouza   punti 75/100

Il Dott. Mouhamad Baker Hmayed non è risultato idoneo ai fini della presente graduatoria.
Sotto condizione dell'accertamento dei requisiti di cui al bando, è dichiarato vincitore del concorso in parola il Dott. Shayan Balgol.

Genova,

IL RETTORE
(firmato digitalmente)

Responsabile del procedimento: Paola Pelle
Area Ricerca, Trasferimento Tecnologico e Terza Missione
Servizio Ricerca
Settore Ricerca Nazionale

Shayan Balgol

_____   _____

_____

ABOUT ME

My passion for Computer Science and Biomedical Engineering has been motivated me to pursue higher education in these fields. In addition to my academic achievements, I am enthusiasm for engaging in various side projects related to my studies, which I consider more than just a hobby.

EDUCATION AND TRAINING

[16/09/2020 – 14/02/2024]

B.S. Degree in Biomedical Engineering

Università degli Studi di Genova   https://unige.it

City: Genova
Country: Italy
Field(s) of study: Biomedical Engineering | Expected graduation date: 02/2024
Thesis: Development of software applications for medical training

[16/09/2022 – 15/09/2023]

B.S. Erasmus+ Study Program

Universitat Rovira i Virgili   https://www.urv.cat/es/

City: Tarragona
Country: Spain

ENGINEERING PROJECT EXPERIENCE

[11/2023 – Current]   **Web-Based AR Application with 3D Heart Interaction**

Developing a web AR application in PlayCanvas using JavaScript, and Blender to modify 3D Heart. Use augmented reality to view a human heart and scan its major parts.

[09/2023 – 01/2024]   **Development of Mobile Application for Medical Training**

For my Bachelor's thesis, I Developed a mobile application with Unity, C++, and Arduino which receives the data from the measurement system and provides feedback about the correct position and pressure of the anti-hemorrhage device(Tourniquet). This application would be an educational tool to help novices understand the correct positioning and most appropriate force to apply to stop a massive hemorrhage.

[01/2023 – 06/2023]   **Implantable Temperature Monitoring and Data Transmission Project**

Designed an implantable data logger with a thermistor-based probe, transmitting data to an IoT database via Arduino Uno and WiFi shield, with remote visualization capabilities in MATLAB.

[01/2023 – 06/2023]   **Design PPG(Oximeter) Device Connected to Mobile Using Bluetooth**

Collected and analyzed data in both infrared (IR) and red light wavelengths, processed it using MATLAB, conducted real-time experiments with RFDuino, and integrated it into a telemedicine app for HRV.

[01/2023 – 06/2023]   **Development of Automation Control for PCL with SoMachine**

Utilized software, including SoMachine, Vijeo Designer, and SoMove, to program and achieve integrated automation control and communication for PLC, HMI, and motor control.

[09/2022 – 01/2023]   **Circuit Design with Sensors and Data Acquisition**

Collaborated with a team to design circuits for signal filters, sensors, and data acquisition systems.

[06/2021 – 12/2021] **Develop Data Analysing Program in MATLAB App Designer**

Designed a user interface and developed a data-analyzing application using MATLAB App Designer. The application is designed to import raw data, classify it, and provide visualizations such as plots and comparisons. The focus of the project was on testing death rates associated with different diseases in various countries worldwide.

WORK EXPERIENCE

[15/12/2018 – 15/09/2020] **Project Manager**

Espring Corp

City: Tehran
Country: Iran
- Managed baby stroller and feeding seat production line projects.
- Planned and coordinated necessary resources to launch new products.
- Monitored production progress, controlled costs, and met deadlines.

[20/09/2016 – 15/12/2018] **Quality Assurance**

Espring Corp

City: Tehran
Country: Iran
- Performed audits and developed reports of the entire production process.
- Identified problems and collaborated with cross-functional teams to develop solutions.
- Performed quality assurance testing to ensure delivery of high-quality products to market.

LANGUAGE SKILLS

Mother tongue(s): Persian

Other language(s): English(C1) , Italian(C1) , Spanish(A2) , Catalan(A1)

TECHNICAL SKILLS

Digital skills

Programming Languages: C/C++/C#, Python, Unity, R Programming, Arduino, JavaScript

Simulation and Data Analysis Software: MATLAB, LabView, ANSYS Fluent

Reporting Tools: Microsoft Office

Circuit Design Software: LTspice, Proteus

Design Tools: Solidworks, Blender, Adobe Photoshop

Industrial Automation Software: SoMachine, Vijeo Designer, SoMove

Backend Development: Firebase

Industrial skills

Manufacturing: Injection Moulding Machine, Welding Machine, CNC/Manual Mill and Lathe, Extrusion Machine, Riveting Machine, Soldering

DIGITAL SKILLS

programming: Python, MATLAB and SQL | Unity | R Programmimg | C / C++ / C+ | Solidworks software | SoMachine V4.3 | Circuit Design: LTspice, Proteus | LabVEW | HTML | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access

ACCOMPLISHMENTS

Awards

UniGe Award for Outstanding Achievement in Erasmus+

Awarding institution: Università degli Studi di Genova

Recipient of the ALISEO Scholarship

Awarding institution: ALISEO (Ligurian Agency for Students and Career)