

## COMPLEMENTARY TRAINING MANUAL FOR USERS

**SKILL DEVELOPER:** APSU

**NAME OF THE SKILL:** Programming and Technology Design

According to the WEF report, Programming and Technology Design are skills in demand for the 21<sup>st</sup> century. Those skills represent the ability to create programmes from the beginning to end and to develop a technology from scratch. Programming software is the capacity of using different sets of programming languages with the intent of building an executable computer program that can turn daily life easier.

### COMPETENCES:

- Understand the existence of multiple different programming languages
- Use different software's to program
- Understand what programming languages are specific for what is intended to create.

### OBJECTIVES:

- To know each programming language is appropriated for each work
- To know each programme can be develop in order to simplify daily life problems
- Comprehend the differences between the various software's of programming

### OUTCOMES:

- Face the new challenges in the workplace
- Be a more useful employ and evolve in the workplace
- Improve skills
- Understand how to tackle fastidious daily live tasks

## INFO ABOUT THE EXPERT:

**Name:** André Reis

**Short bio:** André Reis is a Master of Science (M.Sc.), Electrical, Electronics and Communications Engineering from University of Aveiro and has published scientific articles in Pattern Recognition; specifically, a method for detecting epileptic activity in electroencephalogram (EEG) signals. Currently André works in ESPE (Portugal) and EPROFCOR (Portugal) as Coordinator and Teacher (eleven years) in the course of Electronics and Communications and is a stakeholder in European Robotic and Printing 3D Project. Has also participated in the development of IOT technology and low-cost home automation and application development in Android.

**Position:** Mechatronics teacher in ESPE.

## HOW TO IMPROVE THIS SPECIFIC SKILL:

- **Link to the podcast:**
  - <http://lacjum.8p.pl/fs2022/IO1/pod/4/2.mp3>
- **Videography:**
  - Python Tutorial  
[https://www.youtube.com/watch?v=\\_uQrJ0TkZlc](https://www.youtube.com/watch?v=_uQrJ0TkZlc)
  - C++ Tutorial  
<https://www.youtube.com/watch?v=vLnPwxZdW4Y>
  - Java Tutorial  
<https://www.youtube.com/watch?v=eIrMbAQSU34>
  - MIT Block Programming  
<https://scratch.mit.edu/studios/4794240/>

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