
Overview

The creation of long living, reliable and stable software solutions is directly tied to the developer itself. His ability to produce and document good straightforward modular code will dictate how reusable and reliable the solution will be.

Fraunhofer AICOS offers class-leading training series on Mobile software development (mainly Android/iOS) to help clients learn about the process and implementation. The program can be custom built based on the client's needs, level of expertise and short term objectives. Thanks to several years of experience and market-ready solutions, we can provide training on various topics of mobile computing. The training may range from basic solutions development and debugging to more advanced scenarios such as continuous integration, modular design, test-driven-development, sensorial data and dependency injection. Based on the client's end goal and objectives, we can also consult on best implementation choices and technologies.

Key benefits

- Custom training sessions based on the client's profile and objectives;
- Hands-on training with the support of experienced developers;
- Extensive selection of available technologies;
- Introduction of sustainable software techniques.

Contents

Introduction to Android/iOS Development

Basic concepts of version controlling your code, IDE tools (Android Studio), UI Design and demo application deployment.

Test your Application

Methods and best practices to introduce unit and instrumental testing to your applications, supported by a continuous integration system.

Make your application Ambient Aware

Overview and examples on the usage of sensors like IMU, proximity, and GPS.

Advanced Application

Overview of architecture patterns (MVVM/MVC) and persistence methods.

Take your app to the store

Code obfuscation, localisation, crash reporting platforms, versioning, product flavours and remote monitoring.



Filipe Sousa is the Head of Connected Things at Fraunhofer AICOS, conducting research on mobile computing, embedded intelligence, and wireless communications. He holds a PhD in Telecommunications from the Faculty of Engineering of the University of Porto and was a researcher in INESC Porto where he actively participated in several EU projects.



Marcos Liberal received a MSc in Informatics and Computer Engineering from University of Porto in 2009. He currently works as a mobile developer at Fraunhofer AICOS developing assistive mobile solutions. In the past he worked as a mobile developer at CardMobili where he participated in the development of a digital wallet solution. He was also a researcher at Faculty of Engineering of the University of Porto where he performed research in software test automation.