



Andreas Papadopoulos, PhD
 Manager – Software R&D Division
 a.papadopoulos@cyric.eu

CyRIC Cyprus Research & Innovation Center
Research | Innovation | Entrepreneurship



The certified EU|BIC Business Innovation Center of Cyprus

Our Research, Innovation, Product Development Portfolio

Research, Innovation and Business Activities

- 16 H2020 (+2 in 2021) 7 H2020 Coordination's
- 6 FP7 3 FP7 Coordination's
- 2+1 COSME+EPLUS
- Several National projects most of them as coordinators
- Execute Several industry project in Cyprus and EU

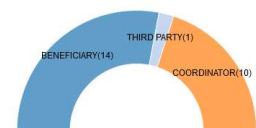
Programmes

● COSME(2) ● H2020(16) ● FP7(6) ● EPLUS(1)























Roles

● BENEFICIARY(14) ● THIRD PARTY(1) ● COORDINATOR(10)



Our Research, Development and Innovation Portfolio

Areas of interest and expertise where we develop products and provide R&D services

Bio-Photonics & Instrumentation	Internet of Things (IoT) Electronics-Wearables & Embedded	Energy/Building/Agri Management & Automat.
  	      	  
Custom fluidics controllers, industrial automation	Custom electronics development, photonics integration, wearable consumer devices	Environmental sensors and controllers
Firmware and Software Development – Cloud and Mobile Applications		
      		
Remote monitoring platform, Proactive safety module firmware, content watermarking		

Andreas Panagoulas, SW R&D Manager, CyRIC

3

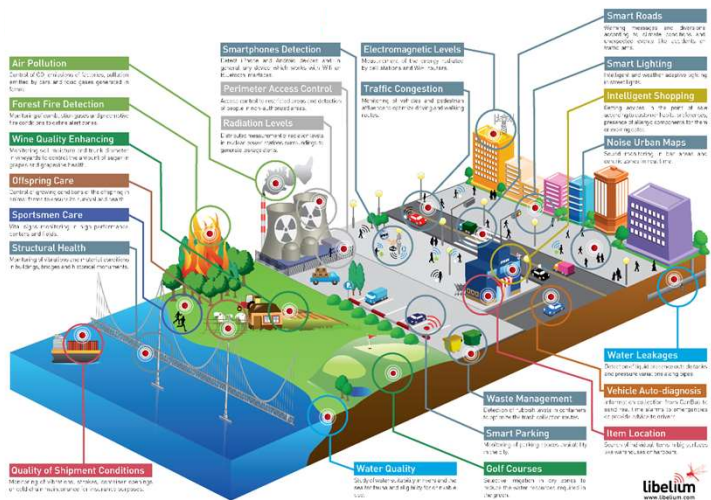
Research & Innovation Focus on IoT

Areas of interest and expertise where we develop products and provide R&D services

Internet of Things (IoT) –Smart Everything

CyRIC Offering

- IoT solutions and SW/HW platform
- IoT systems design and development
- Machine-to-machine (M2M)
- Design and analysis of wireless networks
- Open Data
- Custom Smart Solutions
 - E.g. AMR, parking, audio levels, waste levels, pollution, environmental



Andreas Panagoulas, SW R&D Manager, CyRIC

4

Research & Innovation Focus on IoT

Internet of Things (IoT) and Smart City Solutions

IoT Network deployment - Smart Water Metering Pilot with LWB



Andreas Panadenopoulos, SW R&D Manager, CyRIC

5

Engineering Design & Prototyping

- ✓ Engineering Design
 - ✓ Feasibility Assessment – Assessing various factors to ensure that your project is worthwhile pursuing. Requirements – Functional, Usability, Technical, Environmental, Support, Interaction. Conceptualisation – Brainstorming, literature search, analysis of similar systems. Concept Design – 3D conceptual drawings with product visualisations. Final CAD Design – Create a fully functional 3D model including components, sub-assemblies and large assembly. Design for Manufacture – Refine the CAD model for the production readiness.
- ✓ Prototyping, testing and validation
 - ✓ Employing proven prototyping technologies and processes, we can take your concept or design and bring it to life. Low-fidelity and high-fidelity prototypes are manufactured. Testing and validation – With access to accredited ISO/IEC 17025 labs we can apply tests to improve the functionality and to optimise the performance of the prototypes
- ✓ Engineering Simulations
 - ✓ FEA (Finite Element Analysis - stress, strength, fatigue endurance), Motion and CFD (Computational Fluid Dynamics - fluid flow and heat transfer. Identify problems before products go to market and empower clients to make confident upfront design decisions.
 - ✓ Control Systems - Control and instrumentation design service from simple to advanced control.

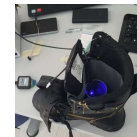
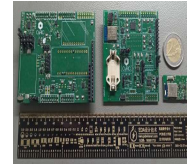


Andreas Panadenopoulos, SW R&D Manager, CyRIC

6

●●●● Electronics & Networks

- ✓ Instrumentation System Design and Integration
- ✓ Embedded systems design and prototyping
- ✓ Research and Innovation on Internet of Things (IoT) technologies
- ✓ Design and integration of smart electronics devices and sensors
- ✓ Design and analysis of mobile and wireless networks

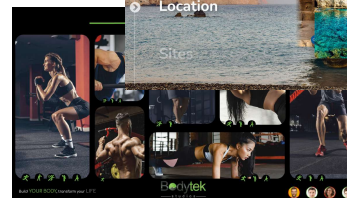
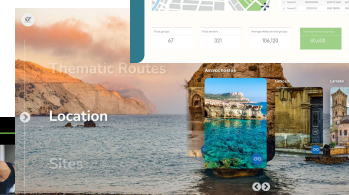
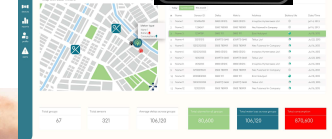
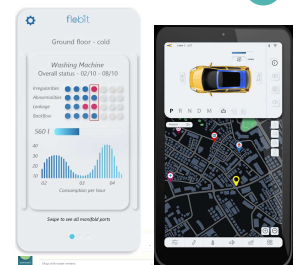


Andreas Papadopoulos, SW R&D Manager, CUBI

7

●●●● Software Research & Development

- ✓ Preliminary Study, User Needs Analysis and definition of Software Technical Specifications
- ✓ Design and implement interactive user interfaces
- ✓ Big Data management and analysis
- ✓ Development of Advance AI and ML algorithms for Big Data analysis and a focus in contextual data analysis
- ✓ Design and implement large-scale Knowledge Retrieval systems
- ✓ Design, implement and maintain Corporate Operational Infrastructure, including a hybrid data center
- ✓ Public Cloud implementations
 - ✓ pure cloud solution, cloud IaaS and hybrid cloud infrastructures



Andreas Papadopoulos, SW R&D Manager, CUBI

8

●●●● Data Scientist

- ✓ **Job Title:** Data Scientist
- ✓ **Location:** CyRIC's Main Office at Engomi, Nicosia, Cyprus
- ✓ **Reports To:** SW R&D Manager
- ✓ **Required Educational Qualifications:** BSc or MSc degree in Data Science or related subject. PhD is considered a plus.
- ✓ **Language Requirements:** English or/and Greek (Fluent verbal and written communication)
- ✓ **Qualifications and Skills**
 - ✓ Experienced in deep learning model development using any popular framework (Tensorflow v2, Pytorch, Keras)
 - ✓ Experienced in investigating the feasibility of AI/ML functionalities in software systems through research methods (literature review, hypothesis testing, computational experiments and so on)
 - ✓ Experienced in time series classification algorithms
 - ✓ Proficient in data processing software such as numpy and pandas
 - ✓ Good knowledge of model deployment and management, such as Tensorflow Serving or Python Flask
 - ✓ Comfortable with setting up ETL pipelines for data visualization or reporting purposes
 - ✓ Understanding of machine learning concepts, including hyper-parameter tuning, transfer learning, loss function optimisation and features engineering
 - ✓ Good understanding of relational databases

Andreas Panadenoulas, SW R&D Manager, CyRIC

9

●●●● Software Developer

- ✓ **Job Title:** Software Developer
- ✓ **Location:** CyRIC's Main Office at Engomi, Nicosia, Cyprus
- ✓ **Reports To:** SW R&D Manager
- ✓ **Required Educational Qualifications:** BSc or MSc degree in Data Science or related subject. PhD is considered a plus.
- ✓ **Language Requirements:** English or/and Greek (Fluent verbal and written communication)
- ✓ **Qualifications and Skills**
 - ✓ Knowledge of Android SDK (API level > 23)
 - ✓ Experience in Android mobile applications development using any of Flutter, Cordova or other similar frameworks
 - ✓ Experience in developing applications using the JNI technology
 - ✓ Understanding of code versioning tools i.e. Git
 - ✓ Proficient in Object Oriented languages preferably Java and C++
 - ✓ Able to create database schemas that represent and support various project requirements
 - ✓ Inquisitive nature and curiosity about new technologies

Andreas Panadenoulas, SW R&D Manager, CyRIC

10

●●●● Vacancies

- ✓ Available job positions:

<https://www.cyric.eu/work-with-us/>







- ✓ Email: jobs@cyric.eu

Andreas Panadenoulas, SW R&D Manager, CyRIC

11

●●●● How to find us



-  Cyprus Office
 72, 28th Octovriou Avenue, Office 301
 Engomi, 2414, Nicosia
-  Greece Office
 36, Voukourestiou Street, Flat B5
 Kolonaki, 10673, Athens
-  Social Media
 Facebook.com/cyric.eu
 Twitter.com/Cy_RIC
-  info@cyric.eu
-  Cyprus : +357 22 777200
 Greece: +30 213 0245042
-  www.cyric.eu

Andreas Panadenoulas, SW R&D Manager, CyRIC

12