Iulian Aciobăniţei

Nationality: Romanian

Gender: Male

Email address: aciobanitei.iulian@gmail.com

Address : George Cosbuc Military Technical Academy, Bucharest (Romania)

WORK EXPERIENCE

Engineer, Specialist Officer in Center of Excelence for Advanced Cybersecurity Technologies

Military Technical Academy [01/08/2014 – Current]

Address: Bucharest (Romania)

Country: Romania

- research in Security Systems for National Defence

- research in Cloud Computing Security (Document Confidentiality, Encryption Schemes, Authorization and Authentication, Hardware Cryptografic accelerators)

- teaching bachelor students : Computer Programming, Electronic Computers Architecture, Embedded Systems - laboratories

- teaching masters students : Security Protocols - laboratories

- coordinating and preparing participation of students in national and international competitions

- hardware and software laboratory maintenance

Software Developer

S.C. TRANS SPED S.R.L. [01/03/2015 – Current]

Address: Bucharest (Romania)
Country: Romania

- Administrating PKI solution

- Developing software applications for electronic signature and security services

- Developing software applications with databases (Mysql/mariadb and .net)

Main skills:

- C#/.net

- PKI

- Linux

- Databases

- HSMs

- Remote electronic signatures

Bachelor Degree Internship - "Autonomous Braking System"

Freescale Romania [01/04/2014 – 31/07/2014]

Address: Bucharest (Romania)

- Designing two different concepts for autonomous car braking: the first using Proportional Integrative Derivative controller and the second using kinetic energy of the intelligent car

- Implementing the autonomous braking car system on two different micro controller architecture

- For the ARM based microcontroller architecture:

- implementing a low level library for controlling the actuators and the sensors

- adjustments for hardware compatibility

- designing and implementing the autonomous high-level braking algorithm

- For the Power PC architecture system:

- using Tresos Electrobit for Initialization and Configuration of interaction between the microcontroller and sensors

- developing AUTOSAR compatible code

- adjustments for hardware compatibility

- Projecting test scenarios

- Comparative analysis of the two implementation methods

Software Developer

S.C. Seleron S.R.L. [01/02/2013 – 01/06/2013]

Address: Bucharest (Romania)

Designing and developing a software application -based on .net framework- that performs interfacing between a PC and an embedded system

Main skills:

- C#/ .net

- Embedded systems

- Human-computer interaction

EDUCATION AND TRAINING

Phd

Military Technical Academy [01/09/2016 – Current]

Address: Bucharest (Romania)

The main topic is Security in Cloud Computing.

Main skills:

- Confidentiality assurance (Encryption schemes, Secure Data deduplication, etc.)

- Authentication and Authorization

- Cloud-based electronic signatures

Master Degree

Military Technical Academy [01/03/2015 – 30/07/2016]

Address: Bucharest (Romania)

- Information Technology Security

- Cryptography, Cryptanalysis, Electronic Signature, Public Key Infrastructure, Security Protocol, Penetration Testing

- Disertation with title: "Lie and deception detection. Issues of trust in human-robot interaction", done at ENSTA Paris during a 3 months ERASMUS trainship.

ERASMUS+ trainship - Lie and deception detection. Issues of trust in human-robot interaction

ENSTA - Ecole National Superiere de Technique Avancee [01/04/2016 – 30/06/2016]

Address: Paris (France)
Field(s) of study: Human-Robot Interaction
Thesis : Masters Thesis

The goal was to make able a robot to figure out if a person with whom it is interacting is trying to lie or not.

Most notable skills:

- Knowledge about lie detection

- Processing thermal images and digital signals

- Working with both Meka and Kompai robots

- Working with ROS (Robot Operating System)

- Python, C++

- OpenCV

Bachelor Degree

Military Technical Academy [01/08/2010 – 01/07/2014]

Address: Bucharest (Romania)

-Computer Programming, Data bases, Object Oriented Programming, Operating Systems, Data Structures and Algorithms, Formal Languages and Translators, Human-Computer Interaction, Multimedia, Special Mathematics, Digital Integrated Circuits, Probability Theory and Mathematical Statistics, Communication Protocols, Systems Theory, Electronic Computers Architecture, Computer Networks, Cryptography, Digital Signal Processing, WEB Technologies, Parallel and distributed Architectures, Software Engineering, Artificial Intelligence, Information Security, Embedded Systems, Biometric Systems

High School Diploma

Military High School "Ştefan cel Mare" [01/09/2006 – 01/07/2010]

Address: Câmpulung Moldovenesc (Romania)

- Mathematics and Informatics

LANGUAGE SKILLS

Mother tongue(s):

Romanian

English	French
LISTENING: B2 **READING:** B2 **UNDERSTANDING:** B2	**LISTENING:** A2 **READING:** A2 **UNDERSTANDING:** A1
SPOKEN PRODUCTION: B2 **SPOKEN INTERACTION:** B2	**SPOKEN PRODUCTION:** A2 **SPOKEN INTERACTION:** A1

DIGITAL SKILLS

Microsoft Word / **Microsoft Excel** / **Outlook** / **Power Point**

DRIVING LICENCE

Driving Licence: **B**

ORGANISATIONAL SKILLS

Organisational skills

- leadership (coordinating team projects)
- good organizational skills gain as company commander

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- communication skills gained during the academic team projects
- excellent communication skills gained during teaching activity
- intercultural abilities gained during ERASMUS+ scholarship

JOB-RELATED SKILLS

Job-related skills

- Strong C, C++, C#, .net, Python skills
- linux
- Strong knowledge of Data Structures and Algorithms
- Embedded Systems, Digital Signal Processing
- PKI, digital signature
- Cryptography
- Teaching and Research Skills

PUBLICATIONS

SABRES - A Proof of Concept for Enhanced Cloud Qualified Electronic Signatures

[2020]

Aciobanitei, Iulian, Vlad Dedita, Mihai-Lica Pura, and Victor-Valeriu Patriciu. "SABRES - A Proof of Concept for Enhanced Cloud Qualified Electronic Signatures" The 13th International Conference on Communications, Bucharest, 2020

Implementing Cloud QES for Documents Using Available Cryptographic Libries: A Survey

[2020]

Ruica, Elena-Cristina, Iulian Aciobăniei, and Mihai-Lica Pura. "Implementing Cloud Qualified Electronic Signatures for Documents Using Available Cryptographic Libraries: A Survey" The 13th International Conference on Communications, Bucharest, 2020

Qualified Electronic Signature SaaS Solution for Google Docs & Google Sheets Documents

[2020]

Aciobanitei, Iulian, Ionut Luculescu, and Mihai-Lica Pura. "Qualified Electronic Signature SaaS Solution for Google Docs & Google Sheets Documents" The 13th International Conference on Communications, Bucharest, 2020

Learned Lessons from Implementing an Android Client for the Cloud Signature Consortium API

[2019]

Aciobanitei, Iulian, Paul-Danut Urian, and Mihai-Lica Pura. "Learned Lessons from Implementing an Android Client for the Cloud Signature Consortium API." International Conference on Information Technology and Communications Security (SecITC). Springer, Cham, 2019.

AVISPA versus AVANTSSAR in the Model Checking of Secure Communication Protocols.

[2018]

Aciobanitei, Iulian, Roxana-Ioana Guinea, and Mihai-Lica Pura. "AVISPA versus AVANTSSAR in the Model Checking of Secure Communication Protocols." ICETE (2),Porto, 2018.

A PKCS#11 Driver for Cryptography in the Cloud.

[2018]

Aciobanitei, Iulian, Lorena Leahu, and Mihai Pura. "A PKCS#11 Driver for Cryptography in the Cloud." 2018 10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI). IEEE, 2018.

Lightweight Version of SQRL Authentication Protocol Based on Cryptography in the Cloud.
[2018]

Aciobanitei, Iulian, Iulian-Catalin Buhus, and Mihai-Lica Pura. "Lightweight Version of SQRL Authentication Protocol Based on Cryptography in the Cloud." 2018 IEEE 12th International Symposium on Applied Computational Intelligence and Informatics (SACI). IEEE, 2018.

Using cryptography in the cloud for lightweight authentication protocols based on QR codes.
[2018]

Aciobanitei, Iulian, Iulian-Catalin Buhus, and Mihai-Lica Pura. "Using cryptography in the cloud for lightweight authentication protocols based on QR codes." 2018 IEEE 12th International Symposium on Applied Computational Intelligence and Informatics (SACI). IEEE, 2018.

A Cryptography API: Next Generation Key Storage Provider for Cryptography in the Cloud.
[2018]

Aciobanitei, Iulian, Paul Danut Urian, and Mihai Pura. "A Cryptography API: Next

Generation Key Storage Provider for Cryptography in the Cloud." 2018 10th International

Conference on Electronics, Computers and Arti cial Intelligence (ECAI). IEEE, 2018.