

## Europass Curriculum Vitae



### Personal information

Surname(s) / First name(s) **DÓRA, László**  
Address(es) 40/a, Jutas utca, H-1037, Budapest, Hungary  
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Email(s) laszlo.dora@crysys.hu  
Nationality(-ies) Hungarian  
Date of birth January 16, 1982  
Gender Male

### Work experience

Dates	
2005 –	Ph.D. student, assistant research fellow
Occupation or position held	research and development
Main activities and responsibilities	participating in EU projects teaching, supervising student projects, elaborating laboratory courses
Name and address of employer	Budapest University of Technology and Economics Contact: Levente Buttyán, Dr. (buttyan@crysys.hu)
Type of business or sector	IT, R&D, education
<b>Dates</b>	2003 – 2005
Occupation or position held	Assistant in Declarative Programming Languages course
Main activities and responsibilities	Developing e-learning system Oral examining
Name and address of employer	Budapest University of Technology and Economics
Type of business or sector	e-learning, education

### Education and training

<b>Dates</b>	2005 – 2011
Title of qualification awarded	Ph.D. (expected date of public defense: 31/07/2011)
Principal subjects/Occupational skills covered	Thesis title: 'Secure data forwarding in wireless multi-hop networks for mobile users'
Name and type of organization providing education and training	Budapest University of Technology and Economics, Hungary
Level in national or international classification	According to ISCED 97 classification: 6
<b>Dates</b>	2000 – 2005
Title of qualification awarded	Software Engineer

Principal subjects/Occupational skills covered

Name and type of organization providing education and training  
Level in national or international classification

**Dates**

Title of qualification awarded  
Principal subjects/Occupational skills covered

Name and type of organization providing education and training

**Personal skills and competences**

Mother tongue(s)

Other language(s)  
*Self-assessment*  
*European level<sup>(\*)</sup>*

**English**

**Spanish**

Social skills and competences

Organisational skills and competences

Technical skills and competences

Computer skills and competences

Artistic skills and competences

Other skills and competences

Driving licence(s)

**Network Security Protocols:** Introduction to cryptography, SSL/TLS, SSH, IPSec, PGP, Wi-fi , GSM, Bluetooth

**Computer security:** developing and evaluating IT security, threat analysis, managing catastrophes, security holes

**Security of Infocommunication Services:** SPAM, firewalls, IDS, AAA systems

**Secure Electronic Commerce:** PKI, RFID, e-payment, anonymity

Budapest University of Technology and Economics, Hungary

According to ISCED 97 classification: 5A

2004.09.01 – 2005.01.15.

ERASMUS exchange program

Parallel programming, web development, 3D animation

University of Oulu, Finland

**Hungarian**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
A2	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A2	Basic user

<sup>(\*)</sup>Common European Framework of Reference (CEF) level

Sense of responsibility  
Able to work well in teams  
Opened to new challenges and new knowledge  
Clear writing skills  
Good listener skills

Systematic thinking ability  
Attentive to detail  
Confident in handling new tasks

Programming skills: C, C++, Java, Matlab, Perl, bash, OpenWRT, J2ME, Symbian, JSP, Delphi, HTML, SQL, PHP, Crypto libraries  
Windows and Linux configuration skills  
Ability to understand security issues in computer networks

Intermediate level user of office applications: Word, Excel, Powerpoint  
Intermediate level user of typesetting application:  $\text{\LaTeX}$   
Basic level user of photo editor applications  
Windows and Linux user skills

Hobby photography

Cycling, skiing

B

## Additional information

### Publications

László Dóra. *Secure data forwarding in wireless multi-hop networks for mobile users*. PhD thesis, Budapest University of Technology and Economics, Hungary, 2011. (submitted)

Amit Dvir, Tamás Holczer, László Dóra, and Levente Buttyán. Version Number Authentication and Local Key Agreement for RPL networks. IETF draft, January 2011

Levente Buttyán, László Dóra, Márk Félegyházi, and István Vajda. Barter Trade Improves Message Delivery in Opportunistic Networks. *Elsevier Ad Hoc Networks*, 8(1):1–14, January 2010

Levente Buttyán, László Dóra, Fabio Martinelli, and Marinella Petrocchi. Fast Certificate-based Authentication Scheme in Multi-operator maintained Wireless Mesh Networks. *Elsevier Computer Communications*, 33(8):907–922, April 2010

Ioannis Askoxylakis, Boldizsár Bencsáth, Levente Buttyán, László Dóra, Vasilios Siris, Dávid Szili, and István Vajda. Securing Multi-operator Based QoS-aware Mesh Networks: Requirements and Design Options. *Wireless Communications and Mobile Computing (Special Issue on QoS and Security in Wireless Networks)*, 10(5):622–646, 2009

László Dóra and Tamas Holczer. Hide-and-Lie: Enhancing Application-level Privacy in Opportunistic Networks. In *Proceedings of the Second International Workshop on Mobile Opportunistic Networking ACM/SIGMOBILE MobiOpp 2010*, Pisa, Italy, February 22-23 2010

Ioannis Askoxylakis, Boldizsár Bencsáth, Levente Buttyán, László Dóra, Vasilios Siris, and A. Traganitis. *Cross-layer security and resilience in wireless mesh networks*. Cross Layer Designs in WLAN Systems, Troubador Publishing Ltd, Emerging Communication and Service Technologies Series, 2010

Gergely Ács, Levente Buttyán, and László Dóra. Misbehaving Router Detection in Link-state Routing for Wireless Mesh Networks. In *Proceedings of the Second IEEE WoWMoM Workshop on Hot Topics in Mesh Networking (HotMESH'10)*, Montreal, Canada, June 2010

Levente Buttyán and László Dóra. An Authentication Scheme for QoS-aware Multi-operator maintained Wireless Mesh Networks. In *Proceedings of the First IEEE WoWMoM Workshop on Hot Topics in Mesh Networking (HotMESH'09)*, Kos, Greece, June 2009

Levente Buttyán, László Dóra, Márk Félegyházi, and István Vajda. Barter-based cooperation in delay-tolerant personal wireless networks. In *Proceedings of the First IEEE WoWMoM Workshop on Automatic and Opportunistic Communications*. IEEE Computer Society Press, June 2007

András Bohák, Levente Buttyán, and László Dóra. An User Authentication Scheme for Fast Handover Between WiFi Access Points. In *Proceedings of the Third Annual International Wireless Internet Conference*, Austin, Texas, USA, October 22-23 2007. ACM. (invited paper)

Levente Buttyán and László Dóra. Wifi biztonság — a jó, a rossz, és a csúf. *Híradástechnika*, May 2006

Levente Buttyán, László Dóra, and István Vajda. Statistical Wormhole Detection in Sensor Networks. In *Proceedings of Security and Privacy in Ad-hoc and Sensor Networks: Second European Workshop*, pages 128–141, Visegrad, Hungary, July 13-14 2005. Springer-Verlag GmbH

Dóra László. Féregjárat detektálása szenzorhálózatokban. Master's thesis, Budapesti Műszaki és Gazdaságtudományi Egyetem, Villamosmérnöki és Informatikai Kar, 1111 Budapest, Egrý József u. 18., May 2005

Dóra László. Féregjárat detektálása szenzorhálózatokban statisztikus eszközökkel. TDK III. helyezet, November 2004. Budapesti Műszaki és Gazdaságtudományi Egyetem, Villamosmérnöki és Informatikai Kar