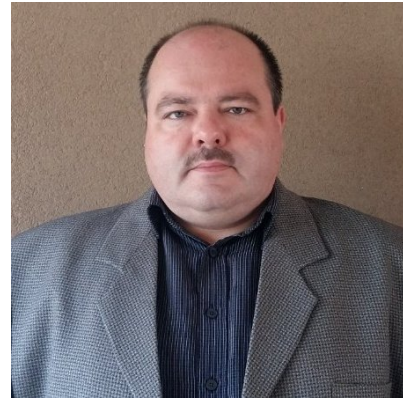# Curriculum Vitae of László Lugosi

Personal Data

Name: László Lugosi
Date of birth: 24.07.1973
Nationality: Hungarian
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Detailed introduction: Linkedin Profile

Work Experience

Jan 2017 – Present   **Lead Software Developer**
Optimal Optik Optics, Electronics and Precision
Mechanics Design and Development Ltd.
Budapest, Hungary

May 2014 – Dec 2016   **Senior Software Developer**
GPS Tuner Ltd.
Budapest, Hungary
Software Development Group

Aug 2013 – Apr 2014   **Software Developer**
Intellisene Co. Ltd. (WebCam Laboratory)
Budapest, Hungary
Software Development Team

Mar 2009 – Jul 2013   **Software Development Physicist / Application Engineer**
Semilab Semiconductor Physics Laboratory Co. Ltd.
Budapest, Hungary
Ellipsometry Software Group

Oct 2004 – Mar 2009   **Test Software Development Engineer**
Elcoteq Hungary Ltd., Pécs, Hungary
Engineering Service Center, New Product Introduction
Test Software Group

Sep 1999 – Sep 2004   **Assistant Research Fellow**
Insitute of Nuclear Research of the Hungarian Academy
of Sciences (ATOMKI), Debrecen, Hungary
Section of Atomic Collisions

Nov 2003 – May 2004   **Researhcer Fellowship**
Nara Insitute of Science and Technology (NAIST), Nara,
Japan, Graduate School of Materials Science
Surface and Materials Science Laboratory

Education

2017 – 2018   **Programmer Informaticist, Postgraduate Degree**
John von Neumann University (NJE)
Faculty of Engineering and Computer Science
Kecskemét, Hungary

Title of [thesis]: *Developing of the control and data processing program of a bidirectional scattering distribution function measurement instrument*

1993 – 1999   **Physicist, Master of Science (MSc) Degree**
University of Szeged ([SZTE](#)),
Faculty of Natural Sciences and Informatics,
Graduate School in Physics, Szeged, Hungary

Title of [diploma work]: *Study of the low energy positron-hydrogen collisions*

1997 – 1999   **Demonstrator Activity**
Department of Theoretical Physics, University of Szeged

1987 – 1991   **Industrial Electronic Technician**
Zipernowsky Károly Technical High School ([ZKMSZ](#))
Pécs, Hungary

1979 – 1987   [Dávidföld] Elementary School, Komló, Hungary

Trainings

2010   Thin Film Metrology Instruments and Methods, **Sopralab**, Paris, France

2006   Digital Video Broadcasting (DVB), **Rode & Schwartz training**, München, Germany

2004   Participation on experiments in **SPring-8** on BL25SU beamline, at the largest third-generation synchrotron radiation facility, Harima, Japan

2002   **University of Oulu**, Department of Physical Science, Oulu, Finland
In the frame of the Finnish-Hungarian NEI exchange programme: Study of the post collision interaction effect in electron-atom collision systems

1999   **CERN**, Field trip in the CERN laboratories, Switzerland

Awards

2009 – Award for ESC Quality tool for Gage R&R and SPC analysis continuous improvement project, Elcoteq Hungary Ltd.

1997 - Third prize on the National Scientific Student Conference (OTDK)

1991 - Gold medal of secondary school graduate

1990 - Second prize on the Lipot Fejér County Mathematical Competition

Publications

10 [refereed articles], **20** [refereed abstracts]

Languages

English, professional working proficiency (document reading and writing)

Complementary Training Courses

2008   LabView Image Processing and Machine Vision, National Instrumenst Training, Budapest

2007   Visual Studio .NET Framework with C#, SZÁMALK Training, Elcoteq,Pécs

2006   Six Sigma Quality Analysis, Green Belt training, Elcoteq, Pécs

2006   LabWindows/CVI for Developers, Budapest, (org. Cobra Control Kft.)

2006   Failure Mode and Effects Analysis (FMEA), Elcoteq, Pécs

2005   Technology of Electronic Products, Department of Electronics Technology, Budapest University of Technology and Economics

2005   PLC Programmer qualification, OKJ identifier: 34 4641 01, Examination Committee: SZTÁV Ltd., Budapest

2005   MS Project, Project Management and Control Program, Elcoteq, Pécs

2005   TestStand for Developers, Elcoteq, Pécs, (org. Cobra Control Kft.)

2004   TestStand Basics, Elcoteq, Pécs, (org. Cobra Control Kft.)

2003   School on Biological Application of Synchrotron and Free Electron Laser Radiation, Biological Research Center. Hungarian Academy of Sciences, Szeged

1999   Radiation safety examination with identifier number: No BST-65, MTA ATOMKI, Debrecen

1993   Personal computer operator qualification (180-412/1990 KSH No). SZÜV Computer Central, Pécs

Informatics skills

Operating Systems:

    Dos, Windows XP, 7, 10, Embeddeed Compact; Ubuntu Linux

Software Technologies:

    WinAPI, COM, .NET

Programming Languages:

    C, C++/Qt, C# .NET

    Fortran, Pascal, Delphi

Software Development Systems:

    Microsoft Visual Studio, C++Builder & Delphi IDE, Qt Creator

Measurement, Test and Automation Softwares:

    National Instruments LabWindows/CVI, TestStand

Measurement System Analysis Software:

    MiniTab, PSPP

Software Design Patterns:

    MVC, MVP, Singleton

Graphical User Interface Design:

Win Forms, Cross-platform Qt Framework

Numerical Mathematics and Symbolic Computation (CAS):

Matlab, Maple

Image Processing and Computer Vision:

OpenCV, Emgu CV

Network Programming:

Qt TCP/IP API, C# TCP/IP Socket

Database Management Systems:

MySQL, MS SQL Server (Transact-SQL), SQLite

Web Programming, Stuctured Data Description:

HTML, CSS, JavaScript/jQuery

Apache – PHP (C++ Zend Extension), IIS - ASP.NET (C# Script)

XML, JSON

Document Preparation System and Graphing Utility:

LaTeX, Gnuplot, SigmaPlot

Software Design and Technical Documentation:

Software Ideas Modeler (CASE & UML), Doxygen

Scripting Languages:

Python, AutoIt/VBScript, QtScript/JavaScript

Subversion Control, Bug and Issue Tracking Softwares:

Tortoise SVN, Mantis, JIRA

Reference Works

- E-bike battery management software for effective range improvement:

  [GPS Tuner Ebike Navigation](#)

- Spectroscopic ellipsometry and porosimetry data evaluation software:

  [SEA User Reference Manual](#)

- Laser ellipsometry measurement control and data analysis software:

  [LE User Reference Manual](#)

- Quality Tool industrial statistical service software:

  [microCAD Article](#)   [IEEE Article](#)   [QualityTool Presentation](#)

- Cycle Time and Stencil database interfaces and reporting websites:

  [Summary](#)   [CycleTime Documentation](#)   [Stencil Presentation](#)

- Program for Crest-factor minimization of multisine signal

  [CF User Guide](#)   [Interactive MatLab GUI](#)

- Numerical mathematical algorithm for quantum mechanical model calculation:

  [Computer Physics Communication](#)   [Review Article](#)

Projetcs

- Economic Development and Innovation Operational Program ([GINOP](), Grant No. 2.1.1-15-2016-00866), 2016-2018

  Research and development of an intelligent optical plate metal part recognition and laser marking equipmnet.

- Economic Competetiveness Operative Programme ([GVOP](), Grant No. 3.2.2-2004-0008/3.0), 2004-2008

  Setting up ELCOTEQ's Research and Development Center in Pécs.

- Hungarian Scientific Research Foundation ([OTKA](), Grant No. T0 31833), 1999-2003

  Investigation of the ion-atom collisions by the method of zero degree electron spectroscopy.

Key Competencies

Software development, Software documentation, Software project management, Algorithm development and numerical calculations, Measurement system analysis, Quality control, Database Design, Web development