



# Denis Laure

## Curriculum Vitæ

### Education

- 2013–present **Post-graduate student in Mathematics and Software Engineering for Computers**, *P. G. Demidov Yaroslavl State University*, Yaroslavl, Russia.
- 2014–2016 **Master student at EIT Digital Master School (double degree programme)**, *major: Human Computer Interaction and Design, specialization: Mobile and Ubiquitous Interaction*, entry university: Aalto University, Helsinki, Finland, exit university: KTH Royal Institute of Technology, Stockholm, Sweden.  
<http://www.masterschool.eitdigital.eu/programmes/hcid/>
- 2008–2013 **Specialist degree in Applied Mathematics and Information Science**, *P. G. Demidov Yaroslavl State University*, Yaroslavl, Russia.

### Experience

- January 2011 – present **Yaroslavl FRUCT Laboratory member**, *P. G. Demidov Yaroslavl State University*, Yaroslavl, Russia.  
<http://yar.fruct.org>, <http://fruct.org>
- July 2016 – present **Developer**, *A.V. Tikhov Eye Microsurgery Clinic*, Yaroslavl, Russia.  
Development of a modern software for eye surgeries.  
<http://240000.ru>
- January 2016 – June 2016 **Master Student, Developer**, *Ericsson*, Stockholm, Sweden.  
Development of a framework that allows to easily create tools that use internal simulations software.  
<http://www.ericsson.com>
- March 2012 – May 2012 **Maintenance specialist**, *Global Corp*, Yaroslavl, Russia.  
Online electronic payment system maintenance and testing. Company website development.

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🌐 <http://denlaure.github.io>

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## R&D Projects

- December 2015 – **GuitarBrush.**  
January 2016 Visualization of the guitar sound with the use of growing tree metaphor.  
○ Project Demo: <https://www.youtube.com/watch?v=VIJNv0XXMEw>
- September 2015 – **Tommy Blocks.**  
January 2016 Low-polygonal-shaped action blocks toy that was chosen for participation in Student Design Challenge of TEI'16 conference.  
○ Project Diary: <https://actionblocks.wordpress.com>  
○ Project Demo: <https://www.youtube.com/watch?v=k9IKO3CLBGM>
- December 2013 – **Mobile Health Diaries.**  
September 2015 Set of mobile health applications for Android platform that include: Blood Pressure Diary, Weight Diary, Healthy Sleep Diary.  
○ Blood Pressure Diary:  
<https://play.google.com/store/apps/details?id=org.fruct.yar.bloodpressurediary>  
○ Weight Diary:  
<https://play.google.com/store/apps/details?id=org.fruct.yar.weightdiary>  
○ Healthy Sleep Diary:  
<https://play.google.com/store/apps/details?id=org.fruct.yar.healthysleepdiary>
- February 2015 – **Walky Doggy.**  
July 2015 Activities stimulating fitness application for Android platform.  
○ <https://play.google.com/store/apps/details?id=org.fruct.yar.walkydoggy>
- August 2013 – **RoDaFlow.**  
November 2013 A framework for development of dataflow network agents for Smart-M3 platform with substitution mechanism.  
○ <http://yar.fruct.org/projects/rodaflow>
- December 2012 – **Explain the Word!.**  
April 2013 Game for LG Smart TV platform. Finalist of the LG Smart TV Apps Contest 2012.
- May 2012–January 2013 **Pulse Detector.**  
2013 Mobile application for heart rate measuring with the use of onboard camera.  
○ <http://fruct.org/node/325565>  
○ Pulse Detector: [http://ovi.sigma.apps.opera.com/en\\_se/pulse\\_detector.html](http://ovi.sigma.apps.opera.com/en_se/pulse_detector.html)  
○ Pulse Detector Pro: [http://ovi.sigma.apps.opera.com/en\\_se/pulse\\_detector\\_pro.html](http://ovi.sigma.apps.opera.com/en_se/pulse_detector_pro.html)
- January 2011 – May 2012 **Octotask.**  
2012 Task collector and manager for mobile devices.  
○ <http://yar.fruct.org/projects/octotask>  
○ <http://fruct.org/octotask>  
○ publications in application markets:  
- Nokia Store: [http://ovi.sigma.apps.opera.com/en\\_se/octotask.html](http://ovi.sigma.apps.opera.com/en_se/octotask.html)  
- Google Play: <https://play.google.com/store/apps/details?id=org.fruct.yar.octotask>

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## Conference Speeches

- 11-15 November 2013 **“RoDaFlow: A Framework for Development of Dataflow Network Agents in Smart-M3 with Substitution Method”**, 14th Conference of Open Innovations Association FRUCT, Helsinki, Finland.

- 22-26 April 2013 **“Improved Algorithm for Heart Rate Measurement Using Mobile Phone Camera”**, 13th Conference of Open Innovations Association FRUCT and 2nd Seminar on e-Tourism for Karelia and Oulu Region, Petrozavodsk, Russia.
- 5-9 November 2012 **“Heart Rate Measuring Using Mobile Phone’s Camera”**, 12th Conference of Open Innovations Association FRUCT and Seminar on e-Tourism, Oulu, Finland.
- 23-27 April 2012 **“Context-Awareness Feature in Octotask Task Manager”**, 11th Conference of Open Innovations Association FRUCT, St-Petersburg, Russia.
- 25-29 April 2011 **“Octotask Project”**, 9th Conference of Open Innovations Association FRUCT and the 1st Regional MeeGo Summit Russia — Finland, Petrozavodsk, Russia.

## Participations

- 12-24 July 2015 **EIT Digital Summer School Health & Wellbeing**, Eindhoven, the Netherlands.
- 26-31 August 2012 **“Computer’s Continuum: Mathematics, Information, Technologies” Summer School**, St-Petersburg, Russia.
- 6-10 August 2012 **6th Russian Summer School in Information Retrieval**, Yaroslavl, Russia.

## Awards

- November 2015 **Winner of the App Hack track at the Time Hack hackathon by Time Village**, <http://timehack.splashthat.com>.
- September 2015 **Winner of the Internet of everything – Afternoon Hack on IOT**.
- July 2015 **Winner of the EIT Digital Summer School on Health & Wellbeing**, <https://www.eitdigital.eu/news-events/news/article/eit-digital-summer-school-health-and-wellbeing-2015-a-brainiac-work-out/>.
- May 2013 **Winner of the English language essays’ contest**, organized by FRUCT, Aalto University and EIT ICT Labs, <http://fruct.org/node/337471>.
- April 2013 **Best Demo of 13th FRUCT Conference**, for *Pulse Detector* application.
- March 2013 **Finalist of the LG Smart TV Apps Contest 2012**, <http://www.lgappscontest.ru/>.

## Languages

- English pre-advanced (IELTS score: 7.0)
- Russian native

## Computer Skills

- OS Debian GNU/Linux, Microsoft Windows, Mac OS X.
- Scientific software GNU Octave, MATLAB,  $\text{\LaTeX}$ .
- Other software Axure, Autodesk Tinkercad.

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🌐 <http://denlaure.github.io>

Programming C/C++, Qt, QML, Java (SE, EE, Android, JavaFX), JavaScript, HTML, Ruby, PHP, Python.

Mobile development Android, Sailfish OS, Tizen, Symbian, Harmattan, Maemo.

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## Fields of Interest

Mobile and crossplatform software development  
Ubiquitous and embedded systems

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## Publications

- 1 D. Laure, A. Vasilyev, I. Paramonov, and N. Kasatkina, "Cross-platform development for Sailfish OS and android: Architectural patterns and "Dictionary Trainer" application Case Study," in *Proceedings of the FRUCT'19. Jyväskylä, Finland, 7-11 November 2016*, no. ISBN 978-952-68397-5-2, FRUCT. St.-Petersburg: ITMO University, 2016, pp. 145–150.
- 2 D. Laure, R. Rigo, C. Kortbeek, and C. Grama, "Tommy blocks: a modern redesign of the classical children's building blocks," in *Proceedings of the TEI'16: Tenth International Conference on Tangible, Embedded, and Embodied Interaction*, no. ISBN 978-1-4503-3582-9. ACM, 2016, pp. 738–742.
- 3 D. Laure and I. Paramonov, "RoDaFlow: A framework for development of dataflow network agents in Smart-M3 with substitution method," in *Proceedings of the 14th Conference of Open Innovations Association FRUCT. Helsinki, Finland, November 11-15, 2013*, FRUCT. St.-Petersburg: State University of Aerospace Instrumentation (SUAI), 2013, pp. 57–62.
- 4 D. Laure, I. Paramonov, A. Vasilev, and I. Timofeev, "Agent substitution mechanism for dataflow networks: Case study and implementation in Smart-M3," in *Internet of Things, Smart Spaces, and Next Generation Networking*, ser. Lecture Notes in Computer Science, S. Balandin, S. Andreev, and Y. Koucheryavy, Eds. Springer Berlin Heidelberg, 2013, vol. 8121, pp. 60–71.
- 5 D. Laure and I. Paramonov, "Improved algorithm for heart rate measurement using mobile phone camera," in *Proceedings of the 13th Conference of Open Innovations Association FRUCT and Seminar on e-Tourism. Pertozaovodsk, Russia, April 22-26, 2013*. St.-Petersburg: SUAI, 2013, pp. 85–93.

Scopus link: <https://www.scopus.com/authid/detail.uri?authorId=55888316800>