



Denis Laure

Curriculum Vitæ

Education

- 2014–present **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, *Expected graduation: 2016.*
<http://www.masterschool.eitdigital.eu/programmes/hcid/>
- 2013–present **Post-graduate student in Mathematics and Software Engineering for Computers**, *P. G. Demidov Yaroslavl State University*, Yaroslavl, Russia, *Expected graduation: 2018.*
- 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>
- March 2012–May 2012 **Maintenance specialist**, *Global Corp*, Yaroslavl, Russia.
Online electronic payment system maintenance and testing. Company website development.
<http://globalcorp.ru>

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📄 <http://denlaure.github.io>

R&D Projects

- December 2013–September 2015 **Mobile Health Diaries.**
Set of mobile health applications for Android platform that include: Blood Pressure Diary, Weight Diary, Healthy Sleep Diary.
○ http://fructmd.com/index_en.html
○ Blood Pressure Diary: <https://play.google.com/store/apps/details?id=org.fruct.yar.bloodpressurediary>
○ Blood Pressure Diary Pro: <https://play.google.com/store/apps/details?id=org.fruct.yar.bloodpressurediary.pro>
○ 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–July 2015 **Walky Doggy.**
Activities stimulating fitness application for Android platform.
○ <https://play.google.com/store/apps/details?id=org.fruct.yar.walkydoggy>
- August 2013–November 2013 **RoDaFlow.**
A framework for development of dataflow network agents for Smart-M3 platform with substitution mechanism.
○ <http://yar.fruct.org/projects/rodaflow>
- December 2012–April 2013 **Explain the Word!.**
Game for LG Smart TV platform. Finalist of the LG Smart TV Apps Contest 2012.
- May 2012–January 2013 **Pulse Detector.**
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
○ Pulse Detector Pro: http://ovi.sigma.apps.opera.com/en_se/pulse_detector_pro.html
- January 2011–May 2012 **Octotask.**
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
- Google Play: <https://play.google.com/store/apps/details?id=org.fruct.yar.octotask>

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.

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- 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

- 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, \LaTeX .
- Other software Axure, Autodesk Tinkercad.
- Programming C/C++, Qt, QML, Java (SE, EE, Android), JavaScript, HTML, PHP, Python.
- Mobile development Android, Tizen, Symbian, Harmattan, Maemo.

Fields of Interest

- Mobile and crossplatform software development
- Ubiquitous systems
- Smart spaces and IoT

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Publications

- 1 D. Laure, O. Medvedev, S. Balandin, and K. Lagutina, "Mobile apps for stimulating healthy life: Walky Doggy reference example," in *Proceedings of the 17th Conference of Open Innovations Association FRUCT. Yaroslavl, Russia, 20-24 April 2015*, no. ISBN 978-5-7577-0493-7, FRUCT. St.-Petersburg: ITMO University, 2015, pp. 110–115.
- 2 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.
- 3 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.
- 4 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. Pertozaodsk, Russia, April 22-26, 2013*. St.-Petersburg: SUAI, 2013, pp. 85–93.
- 5 D. Laure, "Heart rate measuring using mobile phone's camera," in *Proceedings of the 12th Conference of Open Innovations Association FRUCT and Seminar on e-Travel. Oulu, Finland, November 5-9, 2012*. St.-Petersburg: SUAI, 2012, pp. 272–273.
- 6 D. Laure, I. Paramonov, A. Vasilev, and N. Kozhemyakin, "Preprocessor based approach for cross-platform development with Qt Quick Components," in *Proceedings of the 11th Conference of Open Innovations Association FRUCT. Petrozavodsk, Russia, 23-27 April 2012*. St.-Petersburg: SUAI, 2012, pp. 143–150.
- 7 D. Laure, I. Paramonov, A. Vasilev, and Y. Krupin, "Context-awareness feature in Octotask task manager," in *Proceedings of the 11th Conference of Open Innovations Association FRUCT. Petrozavodsk, Russia, 23-27 April 2012*. St.-Petersburg: SUAI, 2012, pp. 192–193.
- 8 D. Laure, Y. Krupin, A. Abdulloev, I. Paramonov, and A. Vasilev, "Synchronization with external task systems in Octotask application," in *Proceedings of the 10th Conference of Open Innovations Association FRUCT and the 2nd Finnish-Russian Mobile Linux Summit. Tampere, Finland, 7-11 November 2011*, no. ISBN 978-5-8088-0659-7, FRUCT. St.-Petersburg: SUAI, 2011, pp. 76–82.

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