Highway 2 Code

Want to be an expert of Linux software development and IoT?

Kajaani University of Applied Sciences offers 40 ECTS in training Linux software development and IoT solutions in the spring of 2021. Highway 2 Code -training is university level, free of charge and 6 months in duration.

What

Basic studies

• Linux OS	5 ECTS
• C-programming	5 ECTS
• DevOps Basics	5 ECTS

Specialization studies

• Embedded Python Programming	5 ECTS
• Databases and data sources in IoT system	5 ECTS
• Full Stack Web Development with Vue.js and Node.js	5 ECTS

Internship/IoT-project (6 weeks)   **10 ECTS**

To who

The applicant is required to have at least minor programming knowledge and also the willingness and enthusiasm to develop his or her own skills. Logical thinking abilities and skills of problem solving are appreciated. The training is meant for people living in Finland.

Why

After the training the student is ready for jobs in software business, and companies get the software experts they need.

Schedule

Training starts in January 2021 and the duration is 6 months.

Execution of training

Training is provided primarily in English. Implementation is completely done in online studies and can be conducted alongside work. We are primarily looking for people who complete the full training module.

Applying and additional information

Applying for the training takes place 2.11. - 15.11.2020 online: www.kamk.fi/h2ctraining

More information about training:
www.h2c.fi
Eero Huusko
Phone 044 715 7040
Email: eero.huusko@kamk.fi

In addition to KAMK, H2C training is given by Universities of Applied Sciences in Vaasa (VAMK), Turku (Turku AMK), Jyväskylä (JAMK), Ylivieska (Centria) and Oulu (OAMK). H2C training is financed by Ministry of Education and Culture.

Ministry of Education and Culture

Tentative schedule

Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	Jun 2021

Basic studies
Specialization studies
Internship

Basic studies:

Linux OS, 5 ECTS
Linux is the most used operating system worldwide. In this course you get to know the basics of Linux operating system and related terminology. You will also install your own Linux and learn how to use it.

C-programming, 5 ECTS
This course introduces you to basics of C-language. After the course you will master the key concepts of programming and you will be able to design and implement basic console-based applications using C.

DevOps Basics, 5 ECTS
This course is an introduction to distributed software development using Agile and DevOps practices. Students become familiar with the different phases of Agile distributed software development process and how to combine development (Dev) and operations (Ops).

Specialization studies:

Embedded Python Programming, 5 ECTS
After this course students know how to use Python professionally. Topics include Python basic operations and advanced features, Jupyter Notebook, Python and Iot systems and Micro Python. This course will teach Python in a practical manner with every lecture including informative coding examples.

Databases and data sources in IoT system, 5 ECTS
This course introduces you to various data sources and databases with a learning-by-doing approach. Relevant databases and SQL query language, document databases, time-series databases, data transfer formats, and database management systems are the central topics of this course.

Full Stack Web Development with Vue.js and Node.js, 5 ECTS
This course concentrates on the development of an effective and maintainable full-stack web applications using Vue.js and Node.js frameworks. You will also learn how to use Node 10, Express.js, MongoDB and Vue to construct modern web applications.

Internship/IoT-project (6 weeks), 10 ECTS

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