



Océ Software - Summer Internship Projects 2012

No.	Project ID	Project Title	Brief Project Description	Technical Skills Required	Department	Project Coordinator
1	DP1	Code Augmentation using Code Contracts	Relevant sections of the code can be augmented using code contracts which allows for greater readability and easier discovery of errors at runtime. Also this allows a number of static checks of the code.	.NET 4.0/C#	DP	Valer Bocan
2	DP2	Nature-inspired algorithms applied in Software Testing - SBC	Nature-inspired algorithms such as the Simulated Beehive Colony (SBC) may prove useful in testing components with a large combination of in/out parameters and where exhaustive testing is impossible.	.NET/C#	DP	Valer Bocan
3	DP3	Building Responsive Web Interface with Knockout.js	Building a responsive web front-end for a data store using modern techniques such as single-page web apps, WebAPI, Knockout.js	ASP.NET MVC4 / JavaScript	DP	Valer Bocan
4	DP4	Parallel programming in multicore environments	Using the Task Parallel Library (TPL) to create multicore-aware programs and creating benchmarks to show the speed gain over different architectures.	.NET 4.0/C#	DP	Valer Bocan
5	DP5	Securing .NET Code Libraries	Using permissions and cryptography in .NET to limit what can be done in code and by whom.	.NET /C#	DP	Valer Bocan
6	DP6	Using JavaScript on the server side: Building a web server with Node.js	Use JavaScript in server environments to create highly responsive web applications with Node.js	ASP.NET MVC / JavaScript	DP	Valer Bocan
7	DP7	3D Visual representation of objects in HTML5 and Silverlight	Use HTML5 and Silverlight to enrich the representation of finishing schemes of printed documents.	HTML5/Silverlight/C#	DP	Simona Bandea
8	ESW8	Automated test development for Power Logic Controller in TCL/TK	The Océ Power Logic controller deals with print files processing, enabling simultaneous, multi-user printing, copying and scanning. It supports all standard file formats, so print jobs can be sent from any location, giving feedback on printer and job status.	Good programming skills (selection test will be in the programming language chosen by the candidate)	ESW	Ruxandra Babiuc
9	ESW9	Test execution for Power Logic Controller	You will test the good implementation of new features and non regression on Power Logic Controller. For that you will have access to some of the best printers available on the wide format technical documents printing market.	Interest and some knowledge in image processing & printing Good programming skills are a plus	ESW	Ruxandra Babiuc
10	ESW10	Mobile Android application: remote printer status	The student will learn how to create an Android application that displays status information for a remote printer. The application will implement a custom widget and/or notifications to observe changes of printer parameters. Development is based on Java / Android.	Average knowledge of Java language is a must Knowledge of topics like Android, Xml, Swing Web sockets is a plus	ESW	Eduart Bunas
11	ESW11	Test automation with Selenium and FEST	The student will learn automated test frameworks based on Selenium and FEST. Test setup and execution is used for functional verification of Java web and desktop applications. The tests will be written in Java, following a junit approach.	Average knowledge of Java language is a must Knowledge of junit / html / xpath / Swing is a plus	ESW	Eduart Bunas
12	PP12	Architecture structure analysis	Integrate structure analysis tools into the development process in order to visualize the implemented design.	Good understanding of Linux OS medium scripting skills	PP	Andrei Tapuchievici