

PROJECTS

FALL 2016

LAUSANNE

Neurocognitive Enhancement

By Alexandru Ciobanu, Ph.D at CHUV

A cognitive training product based on digital games to training the brain and improve cognition according to specific needs

Team: Elise Lu MSc UNIL, Arun Aby Paracattil (PhD EPFL, Partick Jacot Guillardmod (MSc EPFL)



Lumigbo

By Azadeh Khoushabi, Postdoc at EPFL

Our technology platform, built on the combination of novel photo - sensitive biomaterials and advanced implantation tools, offers to dentist a novel root canal treatment solution which is of a higher quality, controllable, fast and easy to handle

Team: Julien Willimann MSc UNIL, Pierre-Arnaud Aeberhard PhD EPFL, Paolo Benettin Postdoc EPFL, Filip Kovacic PhD EPFL



Cassandra Tech

By Cosimo Aprile, Master at EPFL

Our project aims to develop a novel low-power, high accuracy monitoring system for remote controlling applications

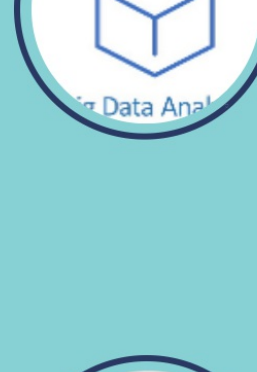
Team: Jens Artons MSc EPFL, Patrick Feller BSc UNIL, Mauro Ferrara PhD EPFL, Willmer Garcia MSc UNIL



Zenit

By Davide and Yoan, MSc at EPFL MoT

Zenit makes this possible by providing the best cloud experience and an awesome collaboration tool. Zenit, the ultimate cloud services manager.



Lironix Smart Windows

By Giuseppe Sforazzini, Senior scientist at EPFL

Smart windows, envisages the preparation of photovoltaic windows that can vary their colour intensity in response of sunlight. We developed a novel class of materials that can allow for the fabrication of self-tinting and energy harvesting film, which can be applied on windows.

Team: Sergio Allegri PhD EPFL, Clara Pinto BSc EHL, Anne Estoppey MSc UNIL

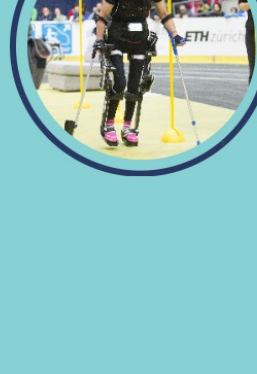


Ypsilon

By Julien Ribbon, PhD at EPFL

Our software/service will help them in analysis of their data in fast, flexible, efficient and user friendly manner. It is based on advance techniques of machine learning and big data analysis.

Team: Lorenzo Olivi BSc EPFL, Inès Burrus PhD HES-SO, Nikolay Smolentsev PhD EPFL



Portage 2.0

By Kevin Carrière, MSc at UNIL

We have created a platform which automates your administrative tasks and legal duties.

Team: Robin Von Känel MSc UNIL, Hideki Perrier PhD UNIGE



TWIICE

By Marek Jancik, MSc at EPFL

TWIIICE is a modular exoskeleton that allows lower limb paraplegic users to stand up and walk again. We developed a manufacturing technique that allows to specifically customise the device to each user.

Team: Caroline Epping MSc UNIL, Monique Bolli PhD EPFL, Rajasundar Chandran PhD EPFL



FlyPORTATION

By Przemyslaw Kornatowski, PhD at EPFL

A foldable drone for person-to-person delivery, is a unique solution for fast, safe and autonomous small package transportation. A cage encompasses the drone, guaranteeing person and payload safety. Foldability ensures ease of storage and transport.

Team: Fatima Taki PhD EPFL, Petra Schwalie PhD EPFL, Matteo Marascio PhD EPFL, Ekaterina PhD EPFL



GRID GUARD

By Reza Razzaghi, PhD at EPFL

GridGuard provide tailor- made centralised fault location device that can precisely locate short circuits on a power grid and at the end drastically reduce the damage caused by fault saving time, material and cost.

Team: Arno Rogg MSc EPFL, Nicolas Gninenko EPFL MSc, Kevin Laforest MSc EPFL



ThinkEE

By Nastaran Asadi Zanjani, PhD at EPFL

ThinkEE is a social energy network that helps consumers to become aware of their energy consumption, provides feedbacks and comparisons with other users to encourage them to reduce it while improving their comfort in their daily life.

Team: Galyna Pidpruzhnykova PhD EPFL, Thomas Corthay BSc UNIL, Cyrielle Collinet MSc EPFL



Ibticare

By Sami Rtimi, PhD at EPFL

Our novel method of coating surfaces kills bacteria on contact, self sterilising surfaces and bacteria cannot develop resistance to it. Our first product will be antibacterial wound dressing.

Team: Soheil Hasanzadeh MSc EPFL, Ivan Diaz PhD EPFL



TAKEO

By Jonathan Lachkar and Oswald Maskens, MSc at EPFL

We wish to offer a new platform to enhance communications and project management. Takeo is inspired by Slack but avoiding disruption. It is retro compatible with email. It will be adapted to private and business activities.

Team: Mikael Mayer PhD EPFL



FRIBOURG

3D drone mapping

By Nicole Schmitt, PhD at UniFR

A high quality service for companies requiring a surface map by delivering a detailed 3D map using a drone and providing the interpretation; increasing efficiency and revenue of the company.

Team: Benjamin Verbeken MSc UniFR, Oliver Nahon BSc UniFR



DERMISCAN

By Renata Bitar, PhD at UniFR

To reduce the high number of unnecessary biopsies, we have developed a portable device, that can be used by physicians who lack dermatological expertise. DERMISCAN provides a non-invasive, real-time skin cancer screening with the same level of accuracy as that performed by dermatologists

Team: Marie-Noelle Giraud PhD UniFR, Meike Ramon PhD UniFR, Christoph Fasnacht BSc HEG-FR, Frederik Neuhaus MSc UniFR



Totoro Child Care

By Anja Holzheu, PhD at UniFR

Our idea is to built up a community based on continual crowdfunding with companies, volunteers, professionals and child care organizations to create affordable crèche

Team: Heidy Chavarria PhD UniFR, Debora Wegmüller BSc HEG-FR



Click & Go

By Cédric Joye, BSc at UniFR

The concept is to offer weekend packages at a clever price, similar to the Qoqa concept and focusing on short thematic trips abroad. We will have special offers from 2 to 4 days organized with different themes.

Team: Alexandre Guillet BSc HEG-FR, Antonia Frei MSc UniFR, Stéphane Lauper BSc HEG-FR



Interactive Window

By Leonardo Angelini and Maurizio Caon, PhD at HEIA-FR

Our systems allow users to communicate at distance in a natural and easy way, providing richer experiences and increased trustfulness. Communicating with the other side of the world or experiencing Niagara Falls is just as easy as opening a window.

Team: Laura Schena MSc UniFR and David Borella MSc UniFR



MyMarket

By Victor Carol, BSc at UniFR

With MyMarket, all the commercial activities are automated and you can check how everything goes thanks to your synchronized app and the QR Code system built into it. MyMarket is the future of sustainable and transparent markets. And by the way, consumers will love it, because they will know their farmers, and know their food

Team: Lionel Alvarez PhD, Ariane Leo BSc HES-SO, Shkelzen Muji MSc



YVERDON

Easeat

By Emmanuel Mathier Bachelor at HEIG-VD

Allowing people to receive fresh and local ingredients to their homes based on selected recipes.

Team: Sarah Leulmi BSc HEIG-VD, Lucille Gontherier BSc HEIG-VD, Giorgio Vuilleumier BSc HEIG-VD, Amandine Gacond BSc HEIG-VD



Poop & Lopp

By Gaëlle Talandier, engineer at HEIG-VD

We will provide cities with a scalable waterless toilet system in order to sustainably prevent water scarcity and pollution, while also giving cities the opportunity to transform organic waste into energy (biogas, electricity, heat) and fertilizers.

Team: Luca Paladi BSc HEIG-VD, Rafäel Chevalier BSc HEIG-VD, Ahmed Abid BSc HEIG-VD



MYNGA

By Eric Landem bachelor at HEIG-VD

A tool to quickly find specialized profiles and make it available to recruiters on the jobs market

Team: Ghislain Ndeuchi BSc HEIG-VD, Claire de Siebenthal BSc HEIG-VD, Rafiatou Gillard BSc HEIG-VD, Marco Vicario BSc HEIG-VD

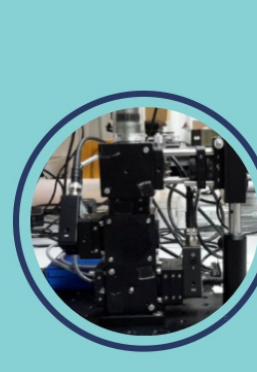


sMapShot

By Timothée Produit, PhD at HEIG-VD

sMapShot uses archive images and commun knowledge to create a virtual globe allowing to go back in time with spatial and time resolution.

Team: Gildas Allaz PhD HEIG-VD and Julien Pidoux BSc HEIG-VD



Nextep

By Kevin Mamalis, BSc at HEIG-VD

We develop and provide fast innovative mobility solutions to help orthotists and prosthetic technicians create gait and comfort optimised socket fits.

Team: Cecile Forcada BSc HEIG-VD, Sophie Borloz BSc HEIG-VD, Yelena Vukovic BSc HEIG-VD

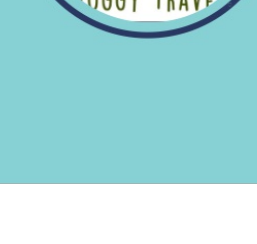


Secure DNA Spikes

By Nils Arrigo, PhD UNIL

We secure sensitive medical data using a patented DNA-based sample tracking system.

Team: Pavel Safronov BSc HEIG-VD and Maxence Cailleteau BSc HEIG-VD



VALAIS

Generation Home

By Arnaud von Allmen, Bachelor at HEIG-VD

We want to create an inter-generational link to bring benefits to both parties.

Team: Andreas Fischer BSc HES-SO Valais, Carole Grange MSc UNIGE, Cindy Horta BSc HES-SO Valais

FEELIVE

By Calixte Mayoraz, Bachelor at HES-SO Valais

We provide a means of meeting and communication between young music artists and small venues, events, and festivals within french-speaking Switzerland. It simplifies the life of event organisers by finding artists for them, and offers young music groups an easy way to find local concerts in their area

Team: Stéphanie Buchard BSc HES-SO Valais, Sylvie Macedo Sc HES-SO Valais, Dardan Aliu Sc HES-SO Valais and Benjamin Pilet Sc HES-SO Valais

Hydrôme

By Mathias Dorsaz, Bachelor at HEI Valais

Making your own plants grow without much maintenance and in a simple way and nice modulable design.

Team: Pierre Baran HEI Valais, Gregory Ferreux HEIG-VD, Basile Vaucher HEI Valais

CouCou

By Calixte Mayoraz, Bachelor at HES-SO Valais

CouCou is a solution to the rental difficulties in Val d'Anniviers and Crans-Montana. It allows owners of secondary residences to rent their accommodation without suffering from the downside (cleaning, controls etc.). CouCou is a personalised, efficient and secure.

Team: Pietro De Luca BSc HES-SO Valais and Morgane Altherr BSc HES-SO Valais

Muppy

By Sara Chalokh, Bachelor at HES-SO Valais

Power strip programmable, modular, adjustable, connected and adapts to the customers needs

Team: Christelle Cheseaux BSc HES-SO Valais, Alain Komaty PhD IDIAP, Arton Abazi BSc HES-SO Valais

QuantPad Diagnostics

By Diana Bojescu, PhD at EPFL

A minimally invasive, rapid and innovative method to monitor critical drugs in blood, leading to better treatment. For this reason, we offer faster, accurate, cheaper and easy to use point-of-care device operating only with a single drop of blood.

Team: Pekka Peljo Postdoc EPFL, Evgeny Smirnov PhD EPFL, Damien Balet BSc HES-SO Valais, Evgueni Chakhtarine BSc HES-SO Valais

Smart Meal Planner

By Guillaume Heusch, PhD at IDIAP

A virtual, intelligent and personalized assistant for everything related to food. It combines the simplicity of a shopping-list app and the power of an automated meal planner, based on your preferences.

Team: Pavel Korshunov IDIAP, Theodor Gerristen UNIL, Vistor Codina Girones EPFL

Poggy Travel

By Aline Terrier, BSc HES-SO Valais

Poggy Travel offers a meaningful personalised traveling experience through the opportunity of meeting and sharing with locals in security.

Team: Vincent Métroz HES-SO Valais, Stéphane Dierickx HES-SO Valais, Cécile Poffet HES-SO Valais

