



PROJECTS

FALL 2015

LAUSANNE

Cloud-based Control

By Andrea Alessandretti, PhD at EPFL

The cloud-based control project aims at shifting from the one-drone-one-application paradigm to the one-drone-many-application by introducing a web store of cloud base modular software application and a hardware module that interfaces with the drone.

Team: Giulia Bianchi PhD at UNIGE

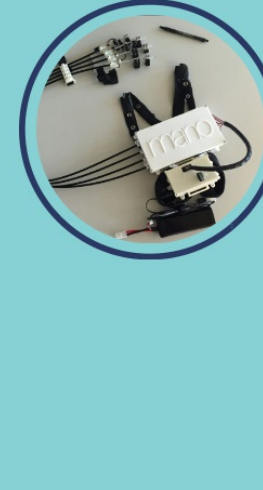


Wavez

By Ahmed Bedair, Master at ECAL

Wavez will be a fashion brand for paraplegics, following the latest fashion trends, and at the same time being functional and comfortable.

Team: Czuee Morey PhD UNIL, Flaminia Equey MSc UNIL, Maximiliano Martinez MSc UNIL



Real-world Analytics

By Lukasz Kidzinski, PhD at EPFL

We decided to set up a platform which counts number of people in a certain location through camera and displays information in google analytics style.

Team: Gabriela Znamenackova PhD UNIL and Ben Gaffinet MSc EPFL



Mano

By Luca Randazzo, PhD at EPFL

Mano is a wearable system for at home hand rehabilitation of people who suffered from motor disabling neurological conditions. Unlike the competitors, mano can be continuously and intensively used at home, therefore delivering faster and better motor recovery.

Team: Cristina Tugui MSc UNIL, Christoph Hofer MSc UNIL and Aidan Keating, MSc UNIL



Smart Battery Energy Storage System

By Maryam Bahramipناه, PhD at EPFL

SBESS is an intelligent energy management system. It provides energy for essential loads such as TV, Radio, and etc during blackouts and disasters. It will also establish a network connection with other installed SBESS in the area using wired or wireless technologies based on availability and sends rescue signals

Team: Fernando Escobar PhD UNIL



Hydrogene fuel production by solar water splitting

By Mohsen Bahrami Panah, PhD at EPFL

Very efficient solar water-splitting cell that can be operated on the one hand to directly produce electricity and on the other hand to produce hydrogen as an energy carrier.

Team: Zakaria Kerdid MSc UNIL and Philippe Mauron BSc HES-SO



Valorization of apitoxin and its derived biologics

By Sara Carvalho, PhD at UNIL

Purifying and separating bee venom into its various components generating bee venom and derivatives with high purity, high levels of quality and of certified origin

Team: David Ahad MSc UNIL and Fatima Soomro, EPFL



BioCNTs

By Vitalijs Zubkovs, PhD at EPFL

BioCNTs that aims to deliver a new device for continuous glucose monitoring through a two millimeter long capillary with a glucose-permeable membrane injected under the dermis

Team: Lucas Antelo Blanco BSc HES-SO and Pavlo Khodakivskiy PhD EPFL



KeyWorder

By Alexandru Constantin, PhD at EPFL

A next-generation web search and browsing experience, offered as a Web Browser plug-in and smartphone App called Keyworder. It will help users define complex ideas or interests as keyword graphs that will interface with any search engine.

Team: Johan Di Pietrantonio MSc UNIL and Wilfried Josst BSc EPFL



TutorAdvisor

By Maria Gabriella Tarantino, PhD at EPFL

Provides a tailored academic tutoring service which helps university students pass exams. The service we aim to offer is a rating-based service and it therefore allows students to choose their own tutor by comparing other students' opinions and prices

Team: Maryam Yepes PhD UNIL



Fresh from yesterday

By Gaurangi Sharma, Master at UNIL

Fresh from Yesterday" brings to you a Food Truck that will sell all kinds of food, absolutely fresh (from yesterday), after checking their nutrition values, for half-price only

Team: Ranjitha Palanichamy MSc EPFL and Sébastien Fahrni MSc UNIL

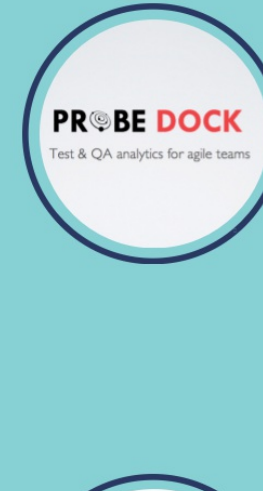


Increasing the learning rate of foreign language vocabulary

By Giorgio Tamo, PhD at EPFL

A personalized app that enables users to learn and practice a new language while targeting very specific purposes, for example shopping at the grocery store, ordering a drink at the bar, planning a trip, interacting with coworkers, etc

Team: Fleix Duvallet PhD EPFL, Thibaud Lyon MSc UNIL and Berra Erkosar Combe PhD UNIL



Future Energy

By Jingshan Luo, PhD at EPFL

The main product of the company will be semitransparent and colourful solar cells developed in Laboratory of Photonics and Interface.

Team: Jintao Zhang PhD EPFL



Immediate Parking

By Joakim Auf der Mauer, Master at UNIL

The application enabling users to find the closest cheapest available private parking in major Swiss cities.

Team: Phillip Silva EPFL and Kenny Hey Tow PhD EPFL

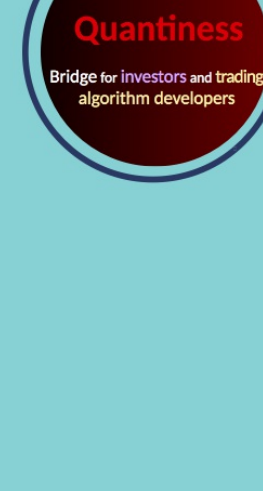


Personalized Diabetes Supply Service

By Stephan Haymerle, Master at UNIL

With this platform, patients will be able to add electronic prescriptions, important information from doctors, medications, delivery details, next appointment or reminders. It will enable a clear overview of the treatment including specific advices from the doctor and pharmacist

Team: Alevtina Dubovitskaya EPFL, Marjolaine Viret PhD UNINE, Miriam Ryf MSc UNIL and Christian Zommerfelds MSc EPFL



Motion Pilot

By Thibaut Paschal and Timothée Peter, Bachelor at EPFL

We want to change the way we control our drones. We want our product to be up to modern drone user's needs. Our product is intuitive to use while enhancing the flying experience and the control quality.

Team: Gabriella Rossier MSc UNIL and Susanne Roeren BSc HES-SO



YVERDON

Gabriel

By Adrien Bigler, scientific collaborator at HEIG-VD

Gabriel sera une plateforme de mise en relation de personnes pour assurer une surveillance de proximité. Calqué sur le double-sided business, Gabriel peut être défini comme le Uber de la sécurité.

Team: Luiz Esteves BSc HEIG-VD, Benjamin Posse BSc HEIG-VD, Jeffrey Magnenat BSc HEIG-VD



Autonomyo

By Amalric Ortlieb, PhD at EPFL and Anaïc Cordoba, PhD at UNINE

Autonomyo is realizing a medical and personal device able to support a healthy and natural mobility for people with walking disorders. Its goal is to encourage walking activities by ensuring balance and comfortable velocity.

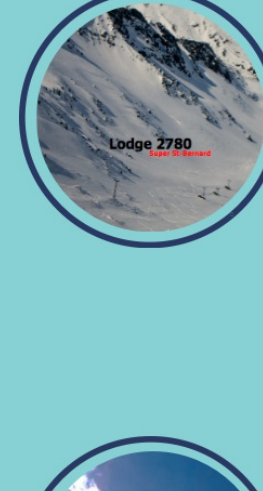


GET

By Edoardo Parini, bachelor at ECAL

GET se présente comme un outil qui met en relation la perception, l'utilisation et les comportements que les clients peuvent avoir avec leur smartphone. En plus de pouvoir passer des appels, GET propose une interaction sans interface avec son téléphone. En effet, ce bracelet ne dispose pas d'écran ce qui permet au consommateur de rester focalisé sur son environnement et non pas sur un écran

Team: Davide Deriu BSc HEIG-VD, Fernando Tiago Fernandes BSc HEIG-VD

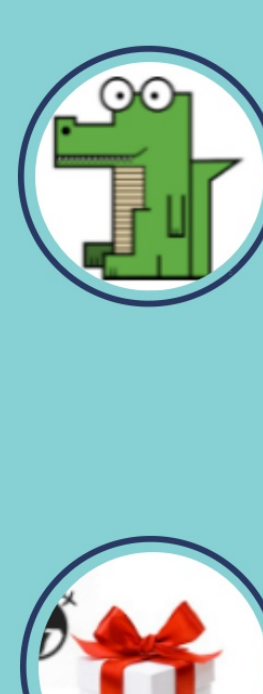


Probe Dock

By Laurent Prévost and Simon Oulevay, scientific collaborators at HEIG-VD

Probe Dock collects and analyses automated test results to offer new insights to developers, product owners and QA managers in order to improve quality and productivity.

Team: Michael Stuber BSc HEIG-VD



UAV-HUB

By Lucien Moser, Raphaël Leone, David Mariétan and Cédric Mariétan, bachelor at HEIG-VD

Notre station de batterie-swap offre une solution globale permettant d'utiliser les drones comme vecteur de livraison. En effet, cette dernière assure autant la prise en charge du colis que le remplacement de la batterie du drone.



MagneSys

By Mathias Béguin and Danny Caldas, bachelor at HEIG-VD

Afin d'éliminer les particules de fer dans les produits concassés issus de l'industrie agroalimentaire, MagneSys entend lancer sur le marché des séparateurs magnétiques plus performants que ceux déjà existants.



Sharebox

By Sébastien Toth, Master at HES-SO VD

ShareBox est une solution de gestion de documents numériques par tags. Elle offre un classement automatisé, une recherche rapide ainsi que d'autres fonctionnalités comme le partage, la synchronisation et le backup

Team: Enrico Campisi, BSc HEIG-VD



Leaudelair

By Simon Ferrand, Master at HES-SO VD

Leaudelair a mit au moins un module de traitement qui permet de produire une eau potable de haute qualité à partir d'eau condensée.

Team: Morgan Brevard, BSc HEIG-VD

Quantiness

By Liu Xinchang, Ph.D. at EPFL

Quantiness est une plateforme d'échange d'algorithmes de trading. Elle permet de mettre en relation deux types d'utilisateurs, des développeurs d'algorithmes et des investisseurs

Team: Jean-Luc Ingold scientific collaborator HEIG-VD, Fabio Regazzoni BSc HEIG-VD and Thomas Boschung MSc UNIL

FRIBOURG

3Dassist

By David Magezi, scientific collaborator at UNIFR

A mobility technology platform by combining road-crossing assistance with GPS-based navigation in urban areas. 3DAssist will sell hardware that combines 3D sensors with GPS system. We will provide free, open-source 3D map-making software that is compatible with our hardware.

Team: Janak Sapkota Ph.D. UNIFR and Aristote Matshoko MSc HES-SO

GoEAT

By Viet Pham, Bachelor

A new platform which can help merchants manage orders, cut down HR costs, increase online visibility and improve operational efficiency by making their business interactive and let it work for them.

Team: Loïc Stankovic BSc HES-SO and Valentin Favre MSc UNIFR

Phoenix

By Frédéric Paltenghi, scientific collaborator at HES-SO

Upcycle home plasticwastes in a high quality raw material for free and print any object you desire or imagine easier and better than ever

Team: Loïc Stankovic BSc HES-SO and Valentin Favre MSc UNIFR

HealthUP

By Elie-Jacques Fares, Ph.D. at UNIFR

A customized fitness & nutrition solution. It will recommend a personalized health program with better communication and accurate feedback to guarantee improved efficiency and effectiveness

Team: Alessandro Bilella Ph.D. UNIFR, Zaid Khan MSc UNIBE, Lenke Horwath Ph.D. UNIFR and Divya Rajan scientific collaborator at UNIFR

Instruly

By Golnaz Isapour, Ph.D. at UNIFR

A web-based platform that allows scientists to share scientific instruments and expertise all around the world. Instruly aims for saving costs and time in research projects by facilitating scientific collaborations.

Team: Andreas Rüggeberg UNIFR, Pauline Sallin Ph.D. UNIFR, Inés Mottas Ph.D. UNIFR and Lavinia Alberi UNIFR

SIERRE

CupKit

By Katia Garcia Diz, Julien Chevrier, Tatiana Lathion, Arnaud Trolliet and Oscar Sottile, Bachelor at HES-SO Sierr

Cupkit propose une nouvelle manière de boire avec un verre ouvrable et refermable à la volonté du consommateur amenant une praticité et sécurité supplémentaire.

Lodge 2780

By Dylan Bergerand and Félicien Rey-Ballet, Bachelor at HES-SO Sierr

Nous offrons un établissement à 2780m. avec l'atmosphère d'une cabane de montagne, mais le confort d'un hôtel. Nous proposons un service de restauration convivial et chaleureux

e-solutions

By Lucas Struchen, Timothée Saumade, Michael Furhoff, Malorie Ducret Bachelor HES-SO Sierr and Elsa Callini scientific collaborator EPFL

Une prestation clef en main personnalisée d'installations énergétiques renouvelables avec un plan de financement flexible. e-solutions certifie les réductions de consommation traditionnelle.

KroKroDeal.ch

By Melissa Nef, Michael Spaethe, Violaine Favre, Jérôme Catteeuw & Yannis Schuppi, Bachelor at HES-SO Sierr

Krokrodeal n'est pas un site internet de commerce en ligne mais une plateforme communautaire et interactive d'information ciblée, qui amène à vivre l'expérience d'achat et des services liés au produit directement chez le petit commerçant

Travelise

By Marie Rüfenacht, Guillaume Rota, Morgane Pfefferlé, Brice Barben and Alain Quartenoud, Bachelor HES-SO Sierr

Travelise est une agence de voyage online permettant de voyager sans connaître sa destination. Elle offre la possibilité de réserver son voyage grâce à des mots clés et un budget. Travelise sélectionne le Tour Opérateur spécialisé adéquat en fonction des critères demandés pour créer un voyage surprise personnalisé

Groozig

By Damien Chatelan, Philippe Morant, Bastien Chabbey, Michaël Berdat and Karn Suard, Bachelor at HES-SO Sierr

Une plateforme qui réunira la communauté suisse des entomophages («mangeurs d'insectes») et leurs proposera des recettes gratuites facilement réalisables chez soi.

REST

By Robin Méregre, Tahani Troger and José Hoyos, Bachelor at HES-SO Sierr

REST lance des projets de développement des énergies renouvelables pour assurer une énergie fiable et accessible aux habitants des pays en développement. Notre service est de transmettre sur place nos connaissances techniques et commerciales à une entreprise locale avec laquelle nous allons fabriquer des installations rentables, durables et simples à entretenir et ce avec un maximum de matériel et main d'oeuvre locale

Ciboom

By Stéphane Bungener, Rémy Cantale, Sven Mittaz and Guillaume Moulin, Bachelor at HES-SO Sierr

Notre service fonctionne de la manière suivante: le cuisinier propose sa spécialité ainsi que les différentes dates à laquelle il souhaite la cuisiner puis il fixe son prix de vente. Si une commande d'un client est effectuée, deux options s'offre au cuisinier: soit il livre directement son plat au client, soit il passe par le service de livraison que nous déléguons à nos partenaires

