

LINKS WITH OTHER SECTORS

Faculty professors, related to the program, executed a technological development project to strengthen and extend the coverage and infrastructure of the telecommunications network of the State of Puebla. In this project, during 2010, 27 communication links were installed and put into operation to increase the coverage of the network and to bring wireless internet services to remote communities. The project was funded by mixed funds from the Federal Government, through CONAHCyT (Mexican Council for Research), with an amount of \$6,816,599.00 M. N.

Another effort is a project where a system of telecommunications and signal processing was developed for monitoring of forest fires in the State of Puebla, also with funding from joint funds, through CONAHCyT, with an amount of \$1,300,000.00 M. N. In this project, where video cameras are installed on a telecommunications towers, signals are transmitted wirelessly to a processing unit that continuously analyzes video in search of smoke. The ultimate goal of the project is the early detection of fire in order to reduce damage to the environment and extinguishing time.

List of companies and public sectors with bonding with the program faculty has been:

- Volkswagen
- General Electric
- SICOM - system communications of the State of Puebla
- Secretariat of environment and natural resources of the State of Puebla

REVIEW OF ACTIONS OF BONDING COMPANIES

Company name: **Central engineering and INDUSTRIAL development** (CIDESI).

Object of the company: Center research public, belonging to the system of centers CONAHCYT.

Intelligent Systems Ph. D. Program – Links with other Sectors

Address: Santiago de Querétaro, Querétaro, Mexico.

Type of agreement/letter/collaboration: collaboration.

Subject of the agreement: Partnership and cooperation for the design and implementation of plans, programs and projects of bonding in areas of interest and mutual benefit.

Contact the UDLAP Principal: **Dr. Gibran Etcheverry Doger.**

Duration: 5 years from the signature.

Signing of the agreement: 04/05/2016.

Name of the company: **CEN Fernando Von Raesfeld Fabre .**

Object of the company: Offers engineering services and product CAD/CAM/CAE tools development, oriented designs based on standards of quality and robust six sigma. Yuma also offers analysis and simulation services falls using MSC Software applications in analysis structural static and dynamic, optimization and simulation in parts and mechanical assemblies projects.

Location: Queretaro, Querétaro, Mexico.

Type of agreement/letter/collaboration: CONFIDENTIAL AGREEMENT.

Object of the Convention: Agreement of confidentiality for the receipt of information, protection of patents, secrets and proprietary rights of the 2 parties.

Contact the UDLAP Principal: **Dr. Gibran Etcheverry Doger.**

Signing of the agreement: 19/07/2017.

Company name: **Mark Denney .**

Object of the company: Company of American software based in Newport Beach, California, specializing in simulation software.

Address: Newport Beach, California, E. U. A.

Type of collaboration-letter-agreement: MUTUAL CONFIDENTIAL DISCLOSURE AGREEMENT.

Object of the Convention: Agreement of confidentiality for the receipt of information, protection of patents, secrets and proprietary rights of the 2 parties.

Contact the UDLAP Principal: **Dr. Gibran Etcheverry Doger.**

Validity:

Signing of the agreement: 30/01/2017.

Intelligent Systems Ph. D. Program – Links with other Sectors

Company name: **Rogelio Lozano Leal** .

Object of the company: Joint international unit (UMI 3175) founded in 2008 by the National Research Council (CNRS). The UMI is stronger collaboration can have the CNRS with a foreign country (only ten of them in the world). LAFMIA is composed of a network mixed franco-mexicana of universities and research centres and centres of excellence, as the University Joseph Fourier (UJF), Polytechnic Institute of Grenoble (INP), the University of technology of Compiègne (UTC) the center of Research and advanced studies of the Mexican Polytechnic Institute (CINVESTAV) and the Mexican Council of science and technology (CONACyT) in Mexico.

Address: Mexico D. F.

Type of collaboration-letter-agreement: MEMORANDUM OF UNDERSTANDING and ADDENDUM.

Subject of the agreement: Memorandum of understanding to improve collaboration within the framework of the rules and regulations that apply to each institution.

Contact the UDLAP Principal: **Dr. José Luis Zechinelli Martini**.

Validity:

Signing of the agreement: 10-14-2016.

Company name: **Dr. Ulises Cortés García** .

Object of the enterprise: The Universitat Politècnica de Catalunya · BarcelonaTech (UPC) is a public institution of higher education and research, specializing in the fields of architecture, engineering, and technology.

Address: Barcelona, Spain.

Type of collaboration/agreement/letter: NON-DISCLOSURE AGREEMENT.

Object of the Convention: Agreement of confidentiality for the receipt of information, protection of patents, secrets and proprietary rights of the 2 parties.

Contact the UDLAP Principal: **Dr. José Luis Zechinelli Martini**.

Duration: 5 years from the signature.

Signing of the agreement: Descent.

Company name: **Natan Bandler** .

Object of the enterprise: The receiving party wishes to investigate the business and / or products and / or technology of the disclosing party, solely in order to detect, analyze and prevent attacks cybernetic elements and systems of transport with the disclosing party.

Address: Israel.

Intelligent Systems Ph. D. Program – Links with other Sectors

Type of collaboration/agreement/letter: NON-DISCLOSURE AGREEMENT.

Object of the Convention: Agreement of confidentiality for the receipt of information, protection of patents, secrets and proprietary rights of the 2 parties.

Contact the UDLAP Principal: **Dr. Gibrán Etcheverry Doger**.

Validity:

Signing of the agreement: 03/05/2017.

Company name: **Carlos Renan Celaya Vargas and Laura Elena Ceballos Zea** .

Object of the company: It is a leading provider of information technology and communications (ICT) services to companies of different industries and public sector entities.

Address: Cuautlancingo, Puebla, Mexico.

Type of collaboration-letter-agreement: agreement of confidentiality.

Object of the Convention: Agreement of confidentiality for the receipt of information, protection of patents, secrets and proprietary rights of the 2 parties.

Contact the UDLAP Principal: **Dr. Gibrán Etcheverry Doger**.

Duration: 5 years from the signature.

Signing of the agreement: 12/04/2017.

Company name: **Eng. Antonio Ulises Coba Uc** .

Object of the company: Its corporate purpose is the presentation of all kinds of services: technology and information, analysis, design, construction and implementation of new applications, search for solutions on the market, integration and maintenance of applications existing, implementation, integration and customization of applications. maintenance of own developments. Services for all types of software, hardware and firmware, electronic, electrical and mechanical, including, but not limited to: equipment and software to control such as are robot, programmable controllers, vision systems, numerical drivers, cards and electronic and mechanical components, panels, etc.

Place of residence: Mérida, Yucatán, Mexico.

Type of agreement/letter/collaboration: linking GENERAL agreement.

Object of the Convention: Establish the bases and operating mechanisms for coordination, development and implementation of programmes, projects and actions of but not limited to linking to but not limited to listed below: technological development e applied research; technical assistance, advice and training; stays and stays, external service, social responsibility programs; creation of enterprises; publications; Organization of events for University extension and dissemination and preparation of programmes of common interest.

Intelligent Systems Ph. D. Program – Links with other Sectors

UDLAP main contact: **Dr. Jose Alfredo Sanchez Huitrón.**

Validity: indefinitely.

Signing of the agreement: 18/02/2016.

Company name: **Eng. Antonio Ulises Coba Uc .**

Object of the company: Its corporate purpose is the presentation of all kinds of services: technology and information, analysis, design, construction and implementation of new applications, search for solutions on the market, integration and maintenance of applications existing, implementation, integration and customization of applications. maintenance of own developments. Services for all types of software, hardware and firmware, electronic, electrical and mechanical, including, but not limited to: equipment and software to control such as are robot, programmable controllers, vision systems, numerical drivers, cards and electronic and mechanical components, panels, etc.

Place of residence: Mérida, Yucatán, Mexico.

Type of agreement/letter/collaboration: specific agreement of collaboration.

Subject of the agreement: Lay the groundwork as UDLAP will perform which activities the proposal number 231070 called "technology to strengthen healthy nutritious habits in diabetics through generation of personalized diets with" lexical translation, visual, ergonomic interface and sustainable equivalents".

UDLAP main contact: **Dr. Jose Alfredo Sanchez Huitrón.**

Validity: From the signature until December 31, 2016 (term extension letter, date until February 2017).

Signing of the agreement: 18/02/2016.

Company name: **Jose Luis Alfonso Romero nurseries and Jose Alberto Meneses Rojas .**

Object of the company:

Address:

Type of agreement/letter/collaboration: specific agreement.

Subject of the agreement: Remember the bases for collaboration to carry out the project "Development of exoskeleton for production process", as research and development projects.

Contact the UDLAP Principal: **Dr. Gibrán Etcheverry Doger.**

Duration: From the date of its signing and shall remain in force according to the schedule (December 2015). Addendum for extension of term awaiting to exercise resources until December 2017.

Signing of the agreement: 23/06/2015.