

APPENDIX B – FACULTY VITAE

FOR THIS REPORT, INCLUDE ONLY RESUMES FOR THE FACULTY MEMBERS WHO TEACH ENGINEERING COURSES LISTED IN TABLE 5-1

Name:	José Ezequiel Díaz Castillo
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Education			
Degree	Discipline	Institution	Graduating year
Master's	Master in Business Administration	UQUAM University	2007
Specialization	Management Skill	ADEN Business school/CMI University	2018
Specialization	Project management/PMI	Monterrey Institute of Technology and Higher Education -Mexico	2015
Specialization	Wholesale electric market and rates	Global Quality	2008
Specialization	Project management	Pedro Henríquez Ureña University of Santo Domingo	2005
Specialization	Mechatronics	Festo/INTEC	2005
Bachelor	Mechanical Engineering	Instituto Tecnológico de Santo Domingo (INTEC)	2003
Specialization	Technologist in Industrial Mechanics (Metal Mechanics)	Loyola Instituto Politécnico	1998

Academic Experience					
Institution	Academic Rank	Title (chair, coordinator, etc.)	Date	FT	PT
INTEC	Instructor		2003-present		X
Jönköping University of Sweden		Invited Professor at Jönköping University of Sweden in 2014 and 2016	2014 and 2016		X

Non-academic experience					
Company	Title	Brief Description of Position	Date	FT	PT
CMI Molinos Modernos Alimentos y consumo	Project Manager and Operative Excellence for the Caribbean Region	Execution of engineering capital expenses projects (CAPEX) and Operational expenses projects (OPEX) from the conception to the end, for the manufacturing plants.	2011 - present	X	
CMI Distribuidora internacional de alimentos	Regional Manager of Central America Commercial Logistics	Responsible for all logistics operations	2008 - 2011	x	
CMI Molinos Modernos	Operations manager	Responsible for all Pastas Operations Departments for the Dominican Republic	2003 - 2008	x	

Certifications or professional registrations			
*Project Management professional/ PMP Certification of Project management institute 2018 *Scrum Master certification Scrum Alliance /2020 *Was certified in Thermography from ASNT American Society For Nondestructive Testing 2003/2004 *Was certified in Vibrations from ASNT American Society for Nondestructive Testing. 2003/2004			
Current membership in professional organizations			
Project management institute /International organization Project management institute /Dominican Chapter			
Honors and Awards			
<ul style="list-style-type: none"> • August 2019- recognition plaque by Molinos Modernos/CMI “15 years working for Molinos Modernos as a values example”, Santo Domingo • July 2019- winner of the recognition as “highest performance university professor 2018-2019”, Instituto Tecnológico de Santo Domingo • June 2018- winner of the recognition as “highest performance university professor 2017-2018”, Instituto Tecnológico de Santo Domingo • March 2018- winner of the recognition plaque for the highest level of performance in Molinos Modernos S.A. Corporation. • February 2017- winner of the recognition plaque for excellence in project management at Molinos Modernos S.A. Corporation • February 2016- winner of the recognition plaque for excellence in the execution of projects in the Molinos Modernos S.A Corporation • August 2015-winner of the recognition plaque for the success of projects in the Molinos Modernos S.A. Corporation. • July 2015- winner of the recognition plaque as the highest performance university professor 2014-2015”, Instituto Tecnológico de Santo Domingo • In 2015 he was the guest lecturer to give the successful conference “Emprendedores que rompen paradigmas”, SC DR. • Winner of the distinguished prize Outstanding Graduate of University Intec-2013. • Recognition of the Inter-American Food Distributor, Molinos Modernos, for being Simple, fast and Profitable. December 2008, Guatemala 			
Services activities (within and outside of the institution), etc.			
Advisor for the NASA Human Exploration Rover Challenge INTEC TEAM Member of the NASA Apolo27 team club			

Publications and presentations <i>(most recent during the past five years):</i>			
Title	Author, co-author	Location (Publication or presentation)	Date
Professional development activities <i>(most recent during the past five years):</i>			
1. Has been hired by the area of scientific publications of the Intec University for revisions and corrections of manual hydraulic laboratory I			

Name:	Edwin Antonio Sánchez Camilo
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Education			
Degree	Discipline	Institution	Graduating year
Masters	Astronautics and Space Engineering	Cranfield University	2010
Bachelor	Electronics and Communications Engineering	Instituto Tecnológico de Santo Domingo (INTEC)	2005

Academic Experience					
Institution	Academic Rank	Title (chair, coordinator, etc.)	Date	FT	PT
INTEC	Instructor		2012-2013		x
INTEC	Instructor	Mechatronic Engineering Program's Laboratory Head	2013-2018	x	
INTEC	Instructor		2013-present	x	
INTEC	Instructor	Aerospace Science Research Group Coordinator	2019-present	x	

Non-academic experience					
Company	Title	Brief Description of Position	Date	FT	PT
InventaRD	General Manager	Project implementation and general company management	2013 - present		x
Edwards Lifesciences	Process Engineer	Automation line process engineer, in charge of correct operation of process and machinery	2010 - 2012	x	
Rockwell Automation	Technical support engineer	Pre sale, post sale and implementation support engineering, in charge of selecting, design and test sensor application systems	2005 - 2007	x	

Certifications or professional registrations

Current membership in professional organizations

American Institute of Aeronautics and Astronautics (AIAA)
Royal Aeronautical Society (RAeS)
Institute of Electrical and Electronics Engineers (IEEE)

Honors and Awards

COMCIL Exceptional member award - 2001

Services activities (within and outside of the institution), etc.

Advisor for the Aerospace Science Student Club - INTEC
Teacher member NASA Globe Program Dominican Republic
Advisor for the Comunidad Científica Loyola (COMCIL)

Publications and presentations

(most recent during the past five years):

Title	Author, co-author	Location (Publication or presentation)	Date

Professional development activities

(most recent during the past five years):

Short course in Advanced Management Development 2016 – 2017

Inductee into the “National Research Career” 2019

Principal researcher for:

1. Development and applications of remote sensing in low Earth orbit (LEO) to improve decision-making on climate and environmental resilience in the Caribbean and Hispaniola Island – Phase I
2. Development of a validation platform for remote sensors and ground stations dedicated to improving decision-making on climate and environmental resilience in the Caribbean and Hispaniola Island

Co-researcher for:

1. Inventory of different points with hydroelectric potential, which allow the decentralized generation of electrical energy through small hydroelectric power plants (PCH) *Spanish acronym.*

Name:	Armando José Taveras Cruz
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Education			
Degree	Discipline	Institution	Graduating year
Master	Renewable Energies	EOI, Spain	2010
Bachelor	Electronics and Communications Engineering	Instituto Tecnológico de Santo Domingo(INTEC)	2006

Academic Experience					
Institution	Academic Rank	Title (chair, coordinator, etc.)	Date	FT	PT
Instituto Tecnológico de Santo Domingo (INTEC)	Instructor		2013-2017		X
	Instructor	Mechatronic Engineering Program's Laboratory Head	2017-Present	X	

Non-academic experience					
Company	Title	Brief Description of Position	Date	F T	P T
InventaRD	Chief Technology Officer	Head of technology applications and development	2013-Present		X
Rockwell Automation products	Application and Technical Support Engineer	Support to all Rockwell Automation products. PLC (Programmable Logic Controllers), HMI software, Industrial networks, industrial sensors, among others	2006-2017	X	

Certifications or professional registrations

Current membership in professional organizations
Institute of Electrical and Electronics Engineers (IEEE)

Honors and Awards

Services activities (within and outside of the institution), etc.

Publications and presentations (<i>most recent during the past five years</i>):

Title	Author, co-author	Location (Publication or presentation)	Date

Professional development activities <i>(most recent during the past five years):</i>
Short courses in: <ul style="list-style-type: none"> • Computer Aided design • Printed circuit board Design • CNC Rapid Prototyping

Name:	Carlos Ariel De Jesús Chaljub
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Education

Degree	Discipline	Institution	Graduating year
Master	Project Management	UPV, Spain/INTEC	2018
Bachelor	Mechatronics Engineering	INTEC	2015

Academic Experience					
Institution	Academic Rank	Title (chair, coordinator, etc.)	Date	FT	PT
Instituto Tecnológico De Santo Domingo	Adjunct		2019-Present		X
Saint Joseph School	Middle and High School Teacher		2012-2014	X	

Non-academic experience					
Company	Title	Brief Description of Position	Date	FT	PT
Implementos y Maquinaria S.A.	Field Engineer	technical intervention/support to equipment in the construction, mining, industrial and commercial markets.	2015-Present		X
Caribbean Positioning System	Service Department Manager	Manage and support a team for Topcon Survey and automation equipment	2014 – 2015	X	
Instituto Tecnológico de Santo Domingo	Mechatronic Lab Assistant	Assisted professors and students in the proper use of devices and tools available in the Mechatronics Lab	2011-2015	X	
Biomedica MG S.A.	Technical Specialist	Provided support for HORIBA medical laboratory devices.	2010-2011	X	

Certifications or professional registrations
Certified Solidworks Associative (CSWA)

Current membership in professional organizations

Honors and Awards

Services activities (within and outside of the institution), etc.

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Publications and presentations <i>(most recent during the past five years):</i>			
Title	Author, co-author	Location (Publication or presentation)	Date

Professional development activities <i>(most recent during the past five years):</i>

Name:	Solandy Milagros Sánchez Riveras
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Education			
Degree	Discipline	Institution	Graduating year
PhD	Environmental sciences	Instituto Tecnológico de Santo Domingo (INTEC)	In progress, expected 2025
Master`s	Marketing	Neetwork, Digital Business School	2021

Master`s	Administration	Institut d'Administration des Entreprises (IAE Rouen)	2015
Master`s	Engineering	Ecole des Mines de Nancy (ENSMN Nancy)	2014
Bachelor`s	Industrial Design	Instituto Tecnológico de Santo Domingo (INTEC)	2013

Academic Experience					
Institution	Academic Rank	Title (chair, coordinator, etc.)	Date	FT	PT
Instituto Tecnológico de Santo Domingo (INTEC)	Professor by subject		November 2016 – July 2022		X
Instituto Tecnológico de Santo Domingo (INTEC)	Fulltime professor		August 2022 - Present	X	

Non-academic experience					
Company	Title	Brief Description of Position	Date	FT	PT
YG Yoanny García SRL	Production and design manager	Responsible for managing all projects, designs and production of the company.	September 2016 – October 2017	X	
La Compagnie des Vacances	Sub-production manager	Master 2 internship. Tourism offers (configuration and updating of descriptive files, verification of rates and promotions).	February 2015 – August 2015	X	
TR Dominicana S. A	Responsible for design and advertising	Responsible for design and subcontractors, advertising and social resources	March 2012 – June 2013	X	

Certifications or professional registrations
<ul style="list-style-type: none"> • Certified SolidWorks Professional Advanced Drawing Tools (ID de la credencial C-F7A85C4ZDT) • Certified SolidWorks Professional Advanced Sheet Metal (ID de la credencial C-LQBNJ9M57H) • Certified SolidWorks Professional Advanced Surfacing (CSWPA-SU) (ID de la credencial C-K8VC6P95WZ) • Certified SolidWorks Professional Mechanical Desing (ID de la credencial C-U5HB8GX2KJ) • Certified SolidWorks Associate Mechanical Design (ID de la credencial C-E23KU56VNC)

Current membership in professional organizations	
<ul style="list-style-type: none"> American Institute of Aeronautics and Astronautics (AIAA) 	

Honors and Awards	
<ul style="list-style-type: none"> Participation Start-up 7, catégorie Émergence Prix Coup de coeur 	

Services activities (within and outside of the institution), etc.	
<ul style="list-style-type: none"> Advisor for the Design, Build, Fly (DBF) – INTEC Volunteer at the community foundation Matrimonio Feliz 	

Publications and presentations (<i>most recent during the past five years</i>):			
Title	Author, co-author	Location (Publication or presentation)	Date
How to perform Yield Management based on stocks, supply and demand? (Comment effectuer du Yield Management en fonction des stocks, de l'offre et de la demande?)	Solandy Sánchez	Institut d'Administration des Entreprises (IAE Rouen)	2015
Market research and design project: "SHOE-SHOE" (retractable heel shoe).	Solandy Sánchez, Jesica Weber	Ecole des Mines de Nancy (ENSMN Nancy)	2014
Design project: Pro /Air (individual and portable security device for public transport)	Solandy Sánchez, Franchesca Lama, Ninoska Velez and Esteban Vela	Instituto Tecnológico de Santo Domingo (INTEC)	2012

Professional development activities (<i>most recent during the past five years</i>):	
<ul style="list-style-type: none"> Phd: Environmental Sciences Master's: Digital Marketing and Web Analysis 	

Name:	Deyslen Mariano Hernández
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Education			
Degree	Discipline	Institution	Graduating year
PhD	Energy	Instituto Tecnológico de Santo Domingo (INTEC)	

Master	Mechatronic	Universitat Politecnica de Catalunya (UPC)	2008
Bachelor	Industrial Engineering	Pontificia Universidad Católica Madre y Maestra (PUCMM)	2006

Academic Experience					
Institution	Academic Rank	Title (chair, coordinator, etc.)	Date	FT	PT
INTEC	Instructor	Mechatronic Engineering Program's Seminars Head	2016 - present	X	
INTEC	Instructor		2013 - 2016		X
INTEC	Instructor		2010 - 2013		X

Non-academic experience					
Company	Title	Brief Description of Position	Date	FT	PT
Enerflex	Manager	Worked on the elaboration and development of automation projects.	2010-2016		X
Transfertec	Project Support Engineer	Worked in the development and execution of automation projects.	2009-2010	X	
ABB	Energy Efficiency Intern	Worked in Marketing department in the energy efficiency area focused on frequency converters.	2008-2008	X	
Johnson & Johnson	Manufacturing Intern	Worked in Thread Waxing department with the Process Engineer.	2007-2007	X	
MercaSID	Engineering Intern	Worked in Plastic Manufacturing department with the Process Engineer.	2006-2006	X	

Certifications or professional registrations

- Energy Efficiency in Buildings.
- KNX Partner.
- Professional Energy Manager.

Current membership in professional organizations

- Institute of Electrical and Electronics Engineers (IEEE) Member.
- International Society of Automation (ISA) Member.
- Colegio Dominicano de Ingenieros, Arquitectos y Agrimensores (CODIA) Member.

Honors and Awards

- High Performance Teacher 2018-2019.
- High Performance Teacher 2016-2017.
- High Performance Teacher 2015-2016.

Services activities (within and outside of the institution), etc.**Publications and presentations***(most recent during the past five years):*

Title	Author, co-author	Location (Publication or presentation)	Date

Professional development activities*(most recent during the past five years):*

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Name:	Irvin E. Cedeño de los Santos
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Education			
Degree	Discipline	Institution	Graduating year
Master in Science	Manufacturing	University of Puerto Rico	1998
Engineer	Mechanical	Instituto Tecnológico de Santo Domingo (INTEC)	1995
Minor	Project Management	<ul style="list-style-type: none"> • ADEN Business School • Stetson University • University of San Francisco 	2008
Minor	Logistics	<ul style="list-style-type: none"> • Universidad de Los Andes • Latin American Logistic 	2006
Minor	Finances	<ul style="list-style-type: none"> • Instituto Tecnológico de Santo Domingo (INTEC) 	2004
Minor	Management	<ul style="list-style-type: none"> • Instituto Tecnológico de Santo Domingo (INTEC) 	2002

Academic Experience					
Institution	Academic Rank	Title (chair, coordinator, etc.)	Date	FT	PT
Instituto Tecnológico de Santo Domingo (INTEC)	Assistant Professor	Mechatronic Engineering Program's Head	2016 - present	X	
Instituto Tecnológico de Santo Domingo (INTEC)	Instructor	Mechatronic Engineering Program's Head	2006 - 2016		X
Instituto Tecnológico de Santo Domingo (INTEC)	Instructor		2000 - 2006		X
Instituto Tecnológico de Santo Domingo (INTEC)	Instructor		1998 - 2000		X

Non-academic experience					
Company	Title	Brief Description of Position	Date	F T	PT
Cervecería Nacional Dominicana	Project Manager	Beer production plant expansion project management	2016-2017	X	
Cervecería Nacional Dominicana	Logistic Manager	Beer distribution process management	2009-2016	X	
Cervecería Nacional Dominicana	Project Coordinator	Beer distribution process expansion process coordination	2003-2009	X	
Cervecería Nacional Dominicana	Maintenance Coordinator	Beer production plant maintenance coordination	1998-2003	X	

Certifications or professional registrations

• Current membership in professional organizations
<ul style="list-style-type: none"> Institute of Electrical and Electronics Engineers (IEEE) - Member

Honors and Awards
<ul style="list-style-type: none"> Woodie Flowers Award 2019-2020 High Performance Teacher 2008-2009

Services activities (within and outside of the institution), etc.
<ul style="list-style-type: none"> First Robotics Competitions Teams Mentor First Lego League Tournament Judge NASA Human Exploration Rover Challenge Team Mentor ONAPI's Appropriate Technology Contest Judge

Publications and presentations (<i>most recent during the past five years</i>):			
Title	Author, co-author	Location (Publication or presentation)	Date

Professional development activities (<i>most recent during the past five years</i>):
<ul style="list-style-type: none"> First Robotics Competitions Season 2019-2020 - Robot Design and Manufacturing First Robotics Competitions Season 2018-2019 - Robot Design and Manufacturing First Robotics Competitions Season 2017-2018 - Robot Design and Manufacturing

Name:	Iván Emilio Jiménez Durán
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Education			
Degree	Discipline	Institution	Graduating year

Master's in Engineering	Electrical Engineering	Utah State University	2012
Bachelor of Science	Electrical Engineering	Utah State University	2011

Academic Experience					
Institution	Academic Rank	Title (chair, coordinator, etc.)	Date	FT	PT
Instituto Tecnológico de Santo Domingo (INTEC)	Instructor	Head of Mechatronics Engineering's Hands-on Program	2016-Current	X	
Instituto Tecnológico de Santo Domingo	Instructor		2014-2016		X
Instituto de Educación Superior Dr. Luis Heredia Bonetti	Facilitator Professor		2021		X

Non-academic experience					
Company	Title	Brief Description of Position	Date	FT	PT
Colegio Comunidad LuxMundi	Robotics Assistant Instructor	Diseño y ejecución del programa de Robótica 1er-2do grado de secundaria.	2018-2019		X
Colegio Bilingüe New Horizons	Math & Physics Coordinator	Coordinate and supervise Math & Physics instruction	2014-2016	X	
Utah Water Research Lab	Research Engineer	Design an UAS-based wildlife tracking solution.	2013-2014	X	

Certifications or professional registrations

Current membership in professional organizations
Institute of Electrical and Electronics Engineers (IEEE)

Honors and Awards
Presidential Scholarship – 2007 Presidential Scholarship – 2011

Services activities (within and outside of the institution), etc.

Advisor for the Robotics Club – INTEC
Judge for FIRST LEGO League competitions
Mentor for FIRST Robotics Competition (FRC) Team FORCE (4707)

Publications and presentations <i>(most recent during the past five years):</i>			
Title	Author, co-author	Location (Publication or presentation)	Date
Presentation: Inteligencia Artificial – Aclaremos la cosa	Author	INTEC	2019

Professional development activities <i>(most recent during the past five years):</i>
Short-course on “Predictive Models with Machine Learning” (2021)