

Facultad de Ingeniería - CRPA (Centro de Recursos para el Aprendizaje)
Libros de trabajos Finales de Grado disponibles en el Centro de Recursos para el Aprendizaje
Carrera de Ingeniería Civil.

N°	Denominación de Trabajo Final de Grado	Alumnos	Tutor / Instructor	Año
1	EVALUATION OF BRACING REQUIREMENTS FOR H-SHAPED STEEL BEAM USED IN SPECIAL MOMENT RESISTING FRAME	BÁRBARA MARÍA BIBIANA, ARGÜELLO PÁEZ	ERWIN KUO	2023
		SOL MISTICA, DIAZ MARTINEZ	ERWIN KUO	2023
2	CALCULATION AND DESIGN OF AN ELECTRICAL TRANSMISSION TOWER FOR THE CROSSING OF THE PARAGUAY RIVER	BENJAMIN, BOBADILLA GAONA	ERWIN ERWIN	2023
		PAULO ADRIAN, COLMAN SCHREIBER	ERWIN KUO	2023
		EDUARDO ALAN, STARK GIL	ERWIN ERWIN	2023
3	STRENGTH AND DEFORMATION CAPACITY OF BEAMS USING HIGH-STRENGTH MATERIALS UNDER CYCLING LOADING	MELANY ARAMÍ, AYALA NÚÑEZ	MARNIE BECIOS GIDUQUIO	2023
		ANTHONELLA BENJAMINA, COHENE TORRES	MARNIE BECIOS GIDUQUIO	2023
		CECILIA JUDITH, GIMÉNEZ PINTOS	MARNIE BECIOS GIDUQUIO	2023
4	DESIGN OF ASPHALT CONCRETE IN TERMS OF BALANCED PERFORMANCE ASSOCIATED WITH FATIGUE AND PERMANENT DEFORMATION	MARIA BELEN, JACQUET VERA	PHD MIN-CHIH LIAO	2023
		MARCELA NOEMI, MALDONADO PEREIRA	PHD MIN-CHIH LIAO	2023
		PATRICIA, OVELAR CENTURION	PHD MIN-CHIH LIAO	2023
5	SEISMIC PERFORMANCE ASSESSMENT OF UNREINFORCED CIRCULAR WEB OPENINGS IN BEAMS FOR UTILITY PASSAGE	IAN GUSTAVO, GILL MÉNDEZ	ERWIN KUO	2023
		JOSÉ ANTONIO, GÓMEZ TOÑANES	ERWIN KUO	2023
6	IRRIGATION SYSTEMS IN TAIWAN AND PARAGUAY: A COMPARISON.	SOL AYELEN, BARRAIL PRATT	CHIH-WEI LU	2023
		DIANA MARÍA, BOLTES BRITZ	CHIH-WEI LU	2023
		MARÍA BELÉN, RAMOS LEGUIZAMÓN	CHIH-WEI LU	2023
		ALMA JAZMIN, ZABALA GONZALEZ	CHIH-WEI LU	2023
7	SEISMIC PERFORMANCE OF AN H-SHAPE STEEL BEAMS WITH ONE UNREINFORCED RECTANGULAR SHAPE WEB OPENING	FABRIZIO ANDRÉS, ANTONA INCHAUSTTI	ERWIN ERWIN	2023
		JULIO EMMANUEL, IZQUIERDO CANTERO	ERWIN ERWIN	2023
		MARÍA JOSÉ, MELGAREJO BRUNO	ERWIN ERWIN	2023
8	OPTIMAL POSITIONING OF WEB OPENINGS IN I BEAMS	AUGUSTO ALEJANDRO, GIMENEZ GONZALEZ	ERWIN KUO	2023
		GUALBERTO ANTONIO, MARIÑO AMARILLA	ERWIN KUO	2023
		PEDRO ANTONIO, ROMERO DA COSTA	ERWIN KUO	2023
9	FINITE ELEMENT ANALYSIS OF BUCKLING SELF-RESTRAINED GIRDER (BSRG)	ALAN FRANCISCO, ORTIZ SILGUERO	ERWIN KUO	2024
		FABRIZIO SEBASTIÁN, FRANCO TOLEDO	ERWIN KUO	2024
		FACUNDO, LEZCANO VASCONSELLOS	ERWIN KUO	2024
		MATHIAS MIGUEL, LISBOA ZÁRATE	ERWIN KUO	2024

10	FEASIBILITY STUDY OF THE USE OF CRUMB RUBBER ASPHALT AND ITS ENVIRONMENTAL BENEFITS IN ANALYSIS IN PARAGUAY	AYELEN MARIA BEATRIZ, JARA VENTURA	MIN CHIH-LIAO	2024
		JUAN DIEGO, AGUILERA PINO	MIN CHIH-LIAO	2024
		MATHIAS CHRISTIAN SAMUEL, CENTURION MENDOZA	MIN CHIH-LIAO	2024
		TOBIAS RODRIGO, CASTILLO DUARTE	MIN CHIH-LIAO	2024
11	REINFORCED CONCRETE FLEXURAL MEMBERS WITH HIGH-STRENGTH MATERIALS	ALEXIS JAVIER, SOSA MIRANDA	MARNIE BECIOS GIDUQUIO	2024
		ALMA TATIANA, BRITZ GÓMEZ	MARNIE BECIOS GIDUQUIO	2024
		HANS ADONAI, BACHEM GERALDO	MARNIE BECIOS GIDUQUIO	2024
		MAURICIO, GARCETE ELLI	MARNIE BECIOS GIDUQUIO	2024
12	APPLICATION OF HEAT INSULATION SOLAR GLASS FOR OFFICE BUILDING AND SKYLIGHTS IN PARAGUAY	CRISTEL ARACELY, GAMARRA GARCIA	CHIN-HUAI YOUNG	2024
		RUTH ITZEL, BACHEM GERALDO	CHIN-HUAI YOUNG	2024
13	CLIMATE CHANGE ADAPTATION FOR HIGHWAYS: PERFORMANCE EVALUATION OF ASPHALT MIXTURES WITH AN ORGANIC WARM MIX ADDITIVE	ANDREA NOEMI, FRANCO ACOSTA	MIN - CHIH LIAO	2024
		GABRIELA MONTERRAT, RIOS BERNI	MIN - CHIH LIAO	2024
		GIULIANA PAOLA, DE VERA CARUGATI	MIN - CHIH LIAO	2024
		KAREN DAHIANA, RESQUIN BOGADO	MIN - CHIH LIAO	2024
14	RESEARCH OF THE FEASIBILITY AND REINFORCEMENT METHODS ON STEEL BEAMS WITH WEB OPENINGS	AGUSTINA NICOLE, BOGADO MORENO	PO CHIEN-HSIAO	2024
		SOFIA ALESSANDRA, SALINAS ROJAS	PO CHIEN-HSIAO	2024
15	PUNCHING SHEAR BEHAVIOR OF SLAB-COLUMN CONNECTIONS	FÁTIMA MARÍA VICTORIA, RODRÍGUEZ GONZÁLEZ	PO-CHIEN HSIAO, MARNIE BECIOS GIDUQUIO	2024
		FERNANDO SEBASTIÁN, SEGOVIA SPIESS	PO-CHIEN HSIAO, MARNIE BECIOS GIDUQUIO	2024
		MARÍA PAZ, NÚÑEZ VALENZUELA	PO-CHIEN HSIAO, MARNIE BECIOS GIDUQUIO	2024
		SAMUEL WOO JOON, JANG KIM	PO-CHIEN HSIAO, MARNIE BECIOS GIDUQUIO	2024
16	UTILIZATION OF STEEL SLAG AS AGGREGATE IN HIGH PERFORMANCE CONCRETE	BADER REINALDO, CHAPARRO MEDINA	CHUN-TAO CHEN	2024
		VÍCTOR AGUSTÍN, MONTIEL KEIM	CHUN-TAO CHEN	2024
17	STUDY ON WEB-CLAPT-TYPE CONNECTION OF WIDE-FLANGE STEEL BRACES WITH SPLICED MID-SEGMENT	YADHIRA DIANA , GIMENEZ	CHIN-CHUN OU	2025
18	FEM BACK-ANALYSIS OF A BI-DIRECTIONAL STATIC LOAD TEST USING PLAXIS 2D	ANDREA ARACELI, AYALA TORRES	CHIN-WEI LU	2025
19	RESEARCH ON DETERMINING SEISMOGRAPH PLACEMENT ON BUILDING FLOORS	ALEJANDRO DANIEL, BORDAS SEGOVIA	TING - YU HSU	2025
20	APPLICATION OF CORRELATIONS BETWEEN STANDARD PENETRATION TEST AND MULTICHANNEL ANALYSIS OF SURFACE WAVES: TWO CASE STUDIES OF PARAGUAY	MARIA BELEN , FERNANDEZ RUIZ	CHIN - WEI LU	2025
21	FEASIBILITY ANALYSIS OF HEAT-INSULATING SOLAR GLASS FOR NORTH-FACING OFFICE BUILDINGS IN PARAGUAY	ELIAS MOISES , RAMIREZ LOPEZ	CHIN-HUAI YOUNG	2025
		SAMUEL FARID, CASTRO ALAS	CHIN-HUAI YOUNG	2025

22	FLEXURAL BEHAVIOR OF BEAMS EXTERNALLY REINFORCED WITH CARBON-FIBER REINFORCED POLYMER	ALEJANDRO JAVIER , LOPEZ PATIÑO	MARNIE B. GIDUQUIO	2025
		MIRELLA AILEN, LOPEZ PATIÑO	MARNIE B. GIDUQUIO	2025
		SANNY CONCEPCION, GABRIAGUEZ GONZALEZ	MARNIE B. GIDUQUIO	2025
23	GROUND RESPONSE UNDER SEISMIC EVENTS	JANNINA LUJAN, CABALLERO LOPEZ	CHIN-WEI LU	2025
		BIANCA LUJAN, CESPEDES COHENER	CHIN-WEI LU	2025
		ANAHI SOLEDAD, MEDINA ZORRILLA	CHIN-WEI LU	2025
24	LANDSLIIDE ANALYSIS: EVALUATING SLOPE SAFETY THROUGH THEORETICAL AND NUMERICAL METHODS	JORGE , CONTRERA ALARCON	CHIN-WEI LU	2025
		JULIO ABEL , OVIEDO CANTERO	CHIN-WEI LU	2025
		CHRISTIAN ABRAHAM, BARRIOS PRIETO	CHIN-WEI LU	2025
25	COMPARATIVE RHEOLOGICAL EVALUATION OF POLYMER MODIFIED ASPHALT AND RECLAIMED ASPHALT PAVEMENT BINDERS USING DYNAMIC SHEAR RHEOMETER TEST	GUSTAVO SEBASTIAN, ASTIGARRA ALMIRON	MIN-CHIH LIAO	2025
		CESAR EMILIO, BENITEZ PAEZ	MIN-CHIH LIAO	2025
		JUAN PABLO ANGEL, BENITEZ RAMIREZ	MIN-CHIH LIAO	2025
		CARLOS RAFAEL, GADEA RAMIREZ	MIN-CHIH LIAO	2025
26	DESIGN DEVELOPMENT AND ANALYTICAL CAPACITY EVALUATION OF A BOLTED SPLICE CONNECTION FOR BCP COLUMNS	CAMILA ABIGAIL, PEREIRA BENITEZ	PO-CHIEN HSIAO	2025

Carrera de Ingeniería Electromecánica.

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1	ROBOT ARM OMNIDIRECTIONAL AUTONOMOUS PICK AND PLACE TASK USING 2D VISION	DIEGO GABRIEL, CORREA BÁEZ	CHYI-YEU LIN	2023
		MAURICIO AGUSTÍN, CRISTALDO AGUILAR	CHYI-YEU LIN	2023
		GONZALO FRANCISCO, MILTOS UGARTE	CHYI-YEU LIN	2023
		ENRIQUE MANUEL, MIRANDA ESCOBAR	CHYI-YEU LIN	2023
2	STUDY BONDING PDMS WITH PC/PET TO FABRICATE MICROFLUIDIC DEVICES	ENRIQUE MANUEL, MIRANDA ESCOBAR	PIN-CUAN CHEN	2023
3	DUCTED WIND TURBINE	ALEJANDRO MANUEL, ARCE OJEDA	WEI-HSIN TIEN	2023
		MARCELO DANIEL, FERREIRA ESQUIVEL	WEI-HSIN TIEN	2023
		MARÍA ANGÉLICA, FIGUEREDO ALCARÁZ	WEI-HSIN TIEN	2023
		DERLIS ALEXANDER EMANUEL, PEREIRA VALIENTE	WEI-HSIN TIEN	2023
4	INTEGRATED PLASMA MECHANISM FOR AGRICULTURAL PURPOSES	MARCELO IVÁN, ARAÚJO VILLALBA	YU LIN KUO	2023
		BRANDON ELIEZER, VELOSO PAREDES	YU LIN KUO	2023
5	CONDITION MONITORING - PHYSICAL SIGNAL ACQUISITION AND ANALYSIS FOR INDUSTRIAL APPLICATION OF MOTORS	HUGO JOSÉ, ESCOBAR CUEVAS	DR. CHEN-YANG LAN	2023
		JONATHAN MATIAS, GONZÁLEZ GÓMEZ	DR. CHEN-YANG LAN	2023
		LUIS ALFREDO, INSFRAN TELLEZ	DR. CHEN-YANG LAN	2023
		LUJAN ARACELI, ROJAS GARAY	DR. CHEN-YANG LAN	2023
6	STUDY BONDING PDMS WITH PC/PET TO FABRICATE MICROFLUIDIC DEVICES	MARÍA DANIELA, NÚÑEZ VALENZUELA	PIN-CUAN CHEN	2023
		JESSICA ROMINA, RAMIREZ VARELA	PIN-CUAN CHEN	2023
7	MULTI-PATH NAVIGATION WITH ROBOTINO VIEW AND ODOMETRY PROGRAMMING	ANGIE MICAELA, AMBROSIONI CARDOZO	LIN CHYI-YEU	2023
		GISSELLE, ULDERA VALIENTE	LIN CHYI-YEU	2023
8	USES OF ROOM TEMPERATURE IONIC LIQUIDS	ANGEL EMANUEL, MIRANDA OCAMPO	HSIU-YANG TSENG	2023
		IVAN, PARCERISA DA SILVEIRA	HSIU-YANG TSENG	2023
		MARTIN ELIAS, VALDEZ VELAZQUEZ	HSIU-YANG TSENG	2023
9	SUSTAINABLE INDOOR ENVIRONMENT MANAGEMENT ANALYSIS OF CURRENT PARAMETERS USED TO DETERMINE AIR QUALITY AND POLLUTANT CONCENTRATION IN ASUNCIÓN, PARAGUAY	CARLOS GIULIANO, CRICHIGNO HIDALGO	LIN, YI-JUN PETER	2023
10	ENERGY EFFICIENT VENTILATION IN PARAGUAY. VENTILATION PORTION OF NATIONAL ENERGY CONSUMPTION.	YAMILI HABIBI, YALUFF CABALLERO	YI-JIUN LIN	2023
11	REMOTE CONTROLLED VEHICLE WITH BALL COLLECTION MECHANISM	ANA CRISTINA, OJEDA CACERES	JASON MENG-KUN LIU	2024
		GIANLUCA, DISTEFANO MARTÍNEZ	JASON MENG-KUN LIU	2024
		KEVIN DAVID, JAIME INSFRÁN	JASON MENG-KUN LIU	2024
		RODRIGO IVAN, ARAMBULO GONZALEZ	JASON MENG-KUN LIU	2024

12	3D PRINTED ARDUINO MECANUM WHEEL-BASED VEHICLE WITH ROBOTIC ARM INTEGRATION FOR PICKING UP TASKS	CARLOS ENRIQUE, COLMÁN PINEDA	MENG-KUN LIU	2024
		FABRICIO NICOLAS, ALCARAZ VÁZQUEZ	MENG-KUN LIU	2024
		KENZO, SHIRAHAMA CASTILLO	MENG-KUN LIU	2024
		TAMARA RAQUEL, VON GLASENAPP	MENG-KUN LIU	2024
13	ODMR OPTIMIZATION STUDY ON A SELF-BUILD PROTOTYPE	ARIEL FEDERICO, GONZALEZ SAMANIEGO	MENG-KUN LIU / SHU-HAO LIANG	2024
		FEDERICO DAVID, VERA GÓMEZ	MENG-KUN LIU / SHU-HAO LIANG	2024
		FRANCO, LOMBARDO BARRAIL	MENG-KUN LIU / SHU-HAO LIANG	2024
		MILTON CESAR, SALA PEREIRA	MENG-KUN LIU / SHU-HAO LIANG	2024
14	FDM TECHNIQUE 3D PRINTING WITH UV CURABLE MATERIAL	JOEL MATIAS, DÁVALOS GIMÉNEZ	JUNG-TING TSAI	2024
		RODOLFO GABRIEL, BUSIGNANI BENÍTEZ	JUNG-TING TSAI	2024
15	OMNIDIRECTIONAL CAR	GUILLERMO, MAIOLI PALACIOS	PETER I-TSYUENG CHANG	2024
		TOBIÁS ARIEL, CHAPARRO BENAVIDES	PETER I-TSYUENG CHANG	2024
16	AGV ROBOT COMPETITION	ALEX DAVID, BARRETO GRANADA	JASON MENG-KUN LIU	2024
		EMANUEL ARTURO, JARA ROMERO	JASON MENG-KUN LIU	2024
		JOE, VIDAURRE AYALA	JASON MENG-KUN LIU	2024
		SEBASTIÁN ARIEL, RÍOS CARDOZO	JASON MENG-KUN LIU	2024
17	PERFORMANCE EVALUATION OF VANADIUM REDOX FLOW SINGLE CELL	ALEJANDRO JESÚS, GOROSTIAGA TIPPACH	YU-LIN KUO	2024
		BRUNO NICOLÁS, SÁNCHEZ ACOSTA	YU-LIN KUO	2024
		CLARA CELIA, THIELMANN	YU-LIN KUO	2024
		KIRA MAGALI, FRANCO DAVALOS	YU-LIN KUO	2024
18	AGV ROBOT WITH A ROBOTIC ARM	MATIAS NICOLAS, FERREIRA GONZALEZ	JASON MENG-KUN LIU	2024
		RENATO JOAQUIN, CABRAL GONZALEZ	JASON MENG-KUN LIU	2024
19	TÉCNICAS DE VISIÓN POR COMPUTADORA PARA LA AUTOMATIZACIÓN INTELIGENTE	TAIS NATHALY, MACHADO ROJAS	CHYI-YEU LIN	2024
		ALAN TOBIAS, TORRES VELAZQUEZ	CHYI-YEU LIN	2024
20	DEVELOPMENT OF LOW WEIGHT PERCENTAGE TI-6Al-4V SLURRIES FOR DIGITAL LIGHT PROCESSING ADDITIVE MANUFACTURING	MAIA LUJAN , JAROLIN OVIEDO	JUNG-TING TSAI	2025
21	STRESSES AND DEFORMATION ANALYSIS OF A BALLON-EXPANDABLE STENT IN A MULTI-LAYERED ARTERY MODEL	SOFIA, AGÜERO MENDOZA	CHING-CHI HSU	2025
		CRISTHIAN DANIEL, SOTOMAYOR PAVÓN	CHING-CHI HSU	2025
22	DEVELOPMENT OF A STETHOSCOPE FOR MACHINE MONITORING: SOUND ANALYSIS FOR INJECTION MOLDING MACHINES	JOSE ANTONIO, CORREA MORENO	JUNG-TING TSAI	2025
		BRAHIAN NOEL, SEGOVIA MELGAREJO	JUNG-TING TSAI	2025
23	BIOMECHANICAL INVESTIGATION OF STRUCTURAL DESIGNS FOR SELF-EXPANDABLE STENTS USING FINITE ELEMENT ANALYSIS	RAFAEL, ACOSTA SERVIAN	CHING-CHI HSU	2025
		MARIO MOISES, MELGAREJO GIMENEZ	CHING-CHI HSU	2025

24	DESIGN AND MECHANICAL PERFORMANCE OF BOLTED JOINT CONFIGURATIONS USING FINITE ELEMENT ANALYSIS	DANNA GABRIELA, LÓPEZ ALMADA	CHING-CHI HSU	2025
		ENRIQUE SEBASTIAN, SHREM SMITH	CHING-CHI HSU	2025
25	DESARROLLO DE UN APARATO DE MANUFACTURA ADITIVA DE ESCRITORIO PARA MATERIALES CEMENTICIOS	MARIANO , OVELAR LOPEZ	JUNG-TING TSAI	2025
		CRISTHYAN , OJEDA DIAZ	JUNG-TING TSAI	2025
26	DEVELOPMENT OF AN UNMANNED SURFACE VEHICLE FOR ENVIROMENTAL MONITORING IN SHALLOW AQUATIC ENVIRONMENTS	MATEO , IBIETA SERAFINI	MIN - FAN RICK LEE	2025
		JOAQUIN, ROLDAN REGIDOR	MIN - FAN RICK LEE	2025
27	MECANISMO DE DISTRIBUCION DE RESINA EN IMPRESORA DLP CON SUSPENSION DE ALEACION DE TITANIO (TI-6Al-4V)	GONZALO DARIO, DIAZ ESQUIVEL	JUNG-TING TSAI	2025
		LEANDRO JAVIER, VOLTA LOPEZ	JUNG-TING TSAI	2025
28	A NUMERICAL STUDY OF MULTIPHYSICS ANALYSIS FOR OPTIMIZATION OF DROPLET MICROFLUIDICS SYSTEMS	IVAN ARIEL, PORTILLA MIRANDA	HSIU-YANG TSENG	2025
		ELIAS JOSE , GOMEZ ASTIGARRA	HSIU-YANG TSENG	2025
		AGUSTIN MATEO, BARRIOS IBARROLA	HSIU-YANG TSENG	2025
29	DESIGN AND DEVELOPMENT OF AN ON-LINE THICKNESS INSPECTION SYSTEM FOR PLASTIC MANUFACTURING	FAUSTO NICOLAS, MINGO GONZALEZ	CHENG-YANG LAN	2025
		JUAN DAVID, FARIÑA CORONEL	CHENG-YANG LAN	2025
		MIGUEL AMADO, GAONA ARMOA	CHENG-YANG LAN	2025
30	OBJECT RECOGNITION AND ROBOT MANIPULATION FOR SURGICAL APPLICATIONS	JOSE ASUNCION , FLORES VALDEZ	PO TING LI	2025
		FACUNDO , ROLON VITERITO	PO TING LI	2025

Carrera de Ingeniería Industrial

Nº	Denominación de Trabajo Final de Grado	Alumnos	Tutor / Instructor	Año
1	BUSINESS OPPORTUNITIES FOR VERTICAL FARMING WITH OPTIMIZED ELECTRICITY COSTS	DULCE MARIBEL, DELGADO URDAPILLETA	VINCENT F. YU	2023
		MARIO MIGUEL, ECHAGÜE BRIZUELA	VINCENT F. YU	2023
		INGRID ARAMI, SACHELARIDI BENEGAS	VINCENT F. YU	2023
		GERARDO JOSÉ, VILLANUEVA RAMIREZ	VINCENT F. YU	2023
2	USING YOLO FOR INTELLIGENT TRAFFIC MANAGEMENT	ELÍAS HERNÁN, FLECHA SÁNCHEZ	CHAO-LUNG YANG	2023
		MÓNICA MARÍA, GONZÁLEZ MALDONADO	CHAO-LUNG YANG	2023
		PABLO NICOLÁS, MALDONADO LESME	CHAO-LUNG YANG	2023
		LOURDES ANTONELLA, MOLINAS ACOSTA	CHAO-LUNG YANG	2023
3	IMPROVEMENT OF SHOP FLOOR MANAGEMENT (SFM) AND PRODUCTIVITY INCREASE THROUGH THE IMPLEMENTATION OF A MANUFACTURING EXECUTION SYSTEM (MES)	JUVENAL JULIAN, BENITEZ LAGUARDIA	KUO TSAI-CHI	2023
		AXEL DAVID, CUELLAR RIOS	KUO TSAI-CHI	2023
		SARA GABRIELA, HIDALGO MEDINA	KUO TSAI-CHI	2023
		BRENDA ELIANA, MORALES PAIVA	KUO TSAI-CHI	2023
4	LAYOUT PROCESS IMPROVEMENT FOR A HOSPITAL IN PARAGUAY	MAURICIO JESÚS, FERREIRA SANTACRUZ	RUEY HUEI YEH	2023
		FIGIELLA, FIGUEREDO RIQUELME	RUEY HUEI YEH	2023
		MAURICIO, ORTIZ FELIU	RUEY HUEI YEH	2023
		ARIEL NICOLAS, PLANAS FERNANDEZ	RUEY HUEI YEH	2023
5	RESOURCE ALLOCATION: OPTIMIZATION IN THE CHECK-IN SYSTEM OF THE INTERNATIONAL AIRPORT SILVIO PETTIROSSI	ARIEL MAXIMILIANO, AGUILERA RUIZ	JEAN RAYMON FONTIN, YING HAO LEE	2024
		DAGO KHALIL, CARDUS MENDOZA	JEAN RAYMON FONTIN, YING HAO LEE	2024
		FÁTIMA MARÍA DEL PILAR, ALONSO ARANDA	JEAN RAYMON FONTIN, YING HAO LEE	2024
		IVAN ALEJANDRO, AMARILLA RAMIREZ	JEAN RAYMON FONTIN, YING HAO LEE	2024
6	ASSESSING THE VIABILITY OF MODULAR CONSTRUCTION TECHNIQUES AGAINST TRADITIONAL METHODS: A SIX SIGMA APPROACH	CAMILA IANINA, PUENTE ESPÍNOLA	RUEY HUEI YEH	2024
		MELISSA GABRIELA, GADEA CUQUEJO	RUEY HUEI YEH	2024
		NADINE DE MARIA, TABOADA MORA	RUEY HUEI YEH	2024
		VICTORIA MIDORI, BALBONTIN PÉREZ	RUEY HUEI YEH	2024
7	COST REDUCTION IN DELIVERY SYSTEMS: INTEGRATING VRP MODELS INTO A HYBRID CLUSTERED APPROACH	EDUARDO AMIN, ROJAS PARRIZ	SHUO- YAN CHOU	2024
		LAURA LAYLI, CABRERA GONZALEZ	SHUO- YAN CHOU	2024
		LEONARDO EZEQUIEL, GAMARRA AGUAYO	SHUO- YAN CHOU	2024
		SOFÍA HAYDÉE, BORJA ALFONSO	SHUO- YAN CHOU	2024
		VINCENZO AUGUSTO, VARELA FERRARI	SHUO- YAN CHOU	2024

8	BLOCKCHAIN-BASED SECURE ENERGY TRANSACTION SYSTEM: ENHANCING TRANSPARENCY AND TRUST IN CROSS-BORDER EXCHANGES BETWEEN PARAGUAY, ARGENTINA AND BRAZIL.	CAMILA, NÚÑEZ GODOY	SHUO- YAN CHOU	2024
		GABRIEL MARIA, ORTIZ GINI	SHUO- YAN CHOU	2024
		GIANNA ISABELLA, RUGGILO PATIÑO	SHUO- YAN CHOU	2024
		MATTHEW ALBERT, BROWN MERELES	SHUO- YAN CHOU	2024
9	FROM WASTE TO WORTH: A STUDY ON TAIWAN'S FOOD WASTE MANAGEMENT	MARÍA BELÉN, BUSTAMANTE VERA	ROBERT RUEY HUEI YEH	2025
		CAMILA BELÉN, CAMPUZANO BAREIRO	ROBERT RUEY HUEI YEH	2025
		FATIMA HAYDÉ, MOLAS MONTIEL	ROBERT RUEY HUEI YEH	2025
10	A COMPRENHENSIVE APPROACH TO ENHANCING MASTER PRODUCTION SCHEDULING STRATEGIES IN CABLE MANUFACTURING THROUGH IMPROVED FORECASTING METHODS AND PROCESS OPTIMIZATION	YUEH - LING, CHEN	SHIH-HSIEN TSENG	2025
		YANINA LUJAN, GUILLEN GOMEZ	SHIH-HSIEN TSENG	2025
		CECILIA MARÍA ANGÉLICA, JARA BÁEZ	SHIH-HSIEN TSENG	2025
11	OPTIMIZING NURSE SCHEDULING AND PATIENT ASSIGNMENT USING DISCRETE-EVENT SIMULATION: A CASE STUDY AT DAJIA LEE'S GENERAL HOSPITAL, TAIWAN	FABRIZIO JAVIER, MERCADO OVEJERO	SHIH - HSIEN TSENG	2025
		NATHALY MA. DEL MAR, SOSA CACERES	SHIH - HSIEN TSENG	2025
		SANTIAGO, RUIZ PAGANO	SHIH - HSIEN TSENG	2025
		ANA BELEN, OJEDA CÁCERES	SHIH - HSIEN TSENG	2025
12	IMPROVING HOSPITAL MANAGEMENT EFFICIENCY WITH SIMULATION USING SIX SIGMA METHODS: THE CASE OF DAJIA LEE'S GENERAL HOSPITAL	KATHIA ABIGAIL, BORJA CHAMORRO	ROBERT RUEY HUEI YEH	2025
		IORELLA MAGALI, DUARTE RIVEROS	ROBERT RUEY HUEI YEH	2025
		IVAN NICOLAS, OLMEDO CANDIA	ROBERT RUEY HUEI YEH	2025
		ANIKA GIULIANA, SCHULZ CHAROTTI	ROBERT RUEY HUEI YEH	2025
13	SIMULATION-BASED OPTIMIZATION OF ERGONOMICS AND HUMAN-ROBOT COLLABORATION IN PARAGUAYAN POWDERED MILK PRODUCTION LINE USING DIGITAL TWINS	MARIA JOSÉ, BRUNETTI ZOTELO	YING-HAO LEE	2025
		SIMARENE MARÍA, RAIDÁN ARGÜELLO	YING-HAO LEE	2025
		MONSERRATH ESTEFANIA, ROJAS BRITZ	YING-HAO LEE	2025
		STEFFI, WEDDERHOFF TURLAN	YING-HAO LEE	2025
14	SIMULATION-BASED EVALUATION OF HUMAN-ROBOT COLLABORATION FOR ENHANCING GPU PRODUCTION LINE EFFICIENCY	MARIA LAURA, AMARILLA MACIEL	YING HAO LEE	2025
		FABRIZIO JULIAN, CORONEL BASUALDO	YING HAO LEE	2025
		ZUNILDA INES, MOREL VERA	YING HAO LEE	2025
		WILEM BASTIAN, ORTEGA SANABRIA	YING HAO LEE	2025
		GABRIELA FABIANA, SANABRIA FRETES	YING HAO LEE	2025
15	FORECASTING ELECTRICITY DEMAND IN PARAGUAY USING CATBOOST AND SHAP: A DATA-DRIVEN APPROACH	JESUS ADRIAN, ALMADA TORRES	CHAO - LUNG YANG	2025
		INGRID KARINA, MARTINEZ MARTINEZ	CHAO - LUNG YANG	2025
		JOSE SEBASTIAN, PEDROZO ARANDA	CHAO - LUNG YANG	2025
		CARLOS SEBASTIAN, SENA NETTO	CHAO - LUNG YANG	2025

Carrera de Ingeniería Informática.

Nº	Denominación de Trabajo Final de Grado	Alumnos	Tutor / Instructor	Año
1	PARAGUAYAN SNACK RECOGNITION SYSTEM: IMPLEMENTATION & ANALYSIS	JONATHAN DAVID, GONZÁLEZ GÓMEZ	SHANG-JANG RUAN	2023
		JUAN JOSÉ, MINARDI ASTIGARRAGA	SHANG-JANG RUAN	2023
		OCTAVIO JAVIER, SANTACRUZ IRIGOITIA	SHANG-JANG RUAN	2023
2	SENTIMENT ANALYSIS ON FINANCIAL NEWS. EFFECTIVENESS AND IMPLICATIONS	ROLANDO, MEDINA ROSNER	HSING-KUO KENNETH PAO	2023
		JUAN DAVID, VELÁZQUEZ ROJAS	HSING-KUO KENNETH PAO	2023
3	INTRUSION DETECTION SYSTEM USING MACHINE LEARNING FOR IOT DEVICES	IVÁN ALESSANDRO, MARTÍNEZ VALIENTE	BINAYAK KAR	2023
		ALVARO JOSUE, ROLON BOGADO	BINAYAK KAR	2023
		MIGUEL ÁNGEL, ROSEMBERG MARTINEZ	BINAYAK KAR	2023
		OSCAR IVAN, STARK BALSEVICH	BINAYAK KAR	2023
4	RECONSTRUCCIÓN 3D UTILIZANDO CÁMARAS DE SMARTPHONE	MATÍAS, GRIJALBA ACOSTA	DR. TZUNG HAN-LIN	2023
		DANIELLE ESPERANZA MARÍA, KRAUCH BAREIRO	DR. TZUNG HAN-LIN	2023
5	FITNESS ASSISTANT USING SEMG AND MACHINE LEARNING	IVANNA CAROLINA, BORJA GÓMEZ	SHANG-JANG RUAN	2023
		MAURICIO GABRIEL, CONIGLIARO SALDAÑA	SHANG-JANG RUAN	2023
		MARA AUXILIADORA, GUILLEN GONZALEZ	SHANG-JANG RUAN	2023
6	NTUST FINDER: LOCATION BASED ON A PICTURE	MILENA AYELEN, DELVALLE ENRIQUE	KENNETH PAO	2023
		CARLOS MAX ANTONIO, GERNHOFER OLMEDO	KENNETH PAO	2023
7	PERCUSSIVE SOUND CLASSIFICATION USING MACHINE LEARNING	ELSON BUM, BAI CHUNG	HSING-KUO PAO	2023
		MATHIAS ALEJANDRO, IRRAZABAL ORREGO	HSING-KUO PAO	2023
8	COMPREHENSIVE STUDY OF A 2D PLATFORMER GAME	FEDERICO SEBASTIÁN, ACOSTA VALINOTTI	WEN-KAI TAI	2023
		GUSTAVO FEDERICO, LOPEZ ZELAYA	WEN-KAI TAI	2023
9	NETWORK INTRUSION DETECTION SYSTEM (NIDS) USING TREE-BASED ENSEMBLE LEARNING	JAIME DAVID, COLMAN FLEITAS	BINAYAK KAR	2024
10	VETPY	ISAIAS JOSÉ, CANDIA INSFRÁN	TAI-LIN CHI	2024
		IVO NAHUEL, MORA GIMÉNEZ	TAI-LIN CHI	2024
		JORGE RAFAEL, CARDOZO LEIVA	TAI-LIN CHI	2024
		LUCAS ISRAEL, MARTÍNEZ LÓPEZ	TAI-LIN CHI	2024
11	DEEP LEARNING-BASED OPTICAL CHARACTER RECOGNITION IN IMAGES	FABIO ENMANUEL, LUGO SOLIS	BINAYAK KAR	2024
		FABRIZIO JOSÉ, WASMOSY ENCISO	BINAYAK KAR	2024
		IGNAZH ANDRES, SZWAKO ACHA	BINAYAK KAR	2024
		MIGUEL ALEJANDRO, MORENO PETTERS	BINAYAK KAR	2024
		SANTIAGO LUIS, VOLPE VON HOROCH	BINAYAK KAR	2024
12	FALL DETECTION	ALVARO ROQUE, JARA GALEANO	TZUNG HANG LIN	2024
		DAVID, MEDINA ROSNER	TZUNG HANG LIN	2024

13	SIGN LANGUAGE ARTIFICIAL INTELLIGENCE	ANDREA NICOLE, BÁEZ VALENCIA	CHIN-YAHUANG	2024
		MAIRA NIKOL, DÍAZ FRANCO	CHIN-YAHUANG	2024
		TATIANA MICAELA, CABALLERO VERA	CHIN-YAHUANG	2024
14	SISTEMA DE CONTEO DE VEHICULOS EN TIEMPO REAL PARA AUTOPISTAS PARAGUAYAS.	MAXIMILIANO, PFANNL FRACHI	SHANG-JANG RUAN	2024
15	3D IMMERSIVE DISPLAY	KEVIN EDILSON, DA ROSA FRANCO	TZUNG HANG LIN	2024
		SANTIAGO RAUL, MERSCH FERNANDEZ	TZUNG HANG LIN	2024
		SEBASTIAN, SANTACRUZ VIÑALES	TZUNG HANG LIN	2024
16	GESTURE-CONTROLLED DIGITAL FRAME FOR ART SHOWCASING WITH DYNAMIC LIGHTNING	ALEJANDRO JOSÉ, CABALLERO CÁCERES	TZUNGHAN LIN	2024
		BRUNO DANIEL, BORDÓN DÍAZ	TZUNGHAN LIN	2024
17	PUBLIC TRANSPORTATION SITUATION IN ASUNCION THROUGH THE LENS OF SMART CITY INITIATIVES	JOANNA MAY, GALEANO MIYASAKI	MSC. HORACIO JAVIER SOSA GALEANO	2024
18	AUTOMATIC FRUIT RIPENESS DETECTION WITH CONVOLUTIONAL NEURAL NETWORKS IN AN ANDROID APPLICATION	JUAN JOSÉ , LAJARTHE FERREIRA	CHIN - YA HUANG	2025
19	IMPROVING HOME SECURITY SENSOR ACCURACY: AIOT SISTEM TO REDUCE FALSE ALARMS TRIGGERED BY NON-THREAT MOVEMENTS	COSTANZA SANTINA, BO OTAZU	ZELALEM LEGESE HAILEMARIA	2025
		FACUNDO MARTIN, IBIETA SERAFINI	ZELALEM LEGESE HAILEMARIA	2025
		GABRIELA AILIN, DOLDAN GAMARRA	ZELALEM LEGESE HAILEMARIA	2025
20	AUTOMATED 3D HUMAN SHAPE PREDICTION FROM TWO PHOTOGRAPHS	GABRIELA AZUCENA, AYALA BLANCO	TZUNG - HAN LIN	2025
		GUILLERMO DAVID, BENITEZ GADEA	TZUNG - HAN LIN	2025
		SANTIAGO , BENITEZ LEGUIZAMON	TZUNG - HAN LIN	2025
21	DEEP LEARNING BASED DENTAL CAVITY DETECTION USING NEAR INFRARED IMAGING	DANTE USUNELE, CANDIA CACERES	TZUNG - HAN LIN	2025
		EMILIANO NAZARENO, ROJAS MARCELLI	TZUNG - HAN LIN	2025
		MATEO JUAN MARÍA, ELIZECHE ARMOA	TZUNG - HAN LIN	2025
		MAXIMILIANO ROMAN, ZARACHO PENAYO	TZUNG - HAN LIN	2025
22	MODERNIZING PARAGUAY'S TOLL COLLECTION SYSTEM USING RFID AND COMPUTER VISION	ALEX RUBEN , STOCKEL DUARTE	CHIN - YA HUANG	2025
		FACUNDO, VILLALBA BOBADILLA	CHIN - YA HUANG	2025
		TOMAS EZEQUIEL, GONZALEZ LOPEZ	CHIN - YA HUANG	2025
		EDWARD JOSSUE, DEMESTRI SOSA	CHIN - YA HUANG	2025
23	STUDENT ENROLLMENT SYSTEM	ALEXIS ALBERTO, COLMAN RIVERO	SHAM - HSIANG SHEN	2025
		NAHUEL GASTON, DOUTRELEAU QUESADA	SHAM - HSIANG SHEN	2025
		MIGUEL DAVID, AYALA GONZALEZ	SHAM - HSIANG SHEN	2025
		FABRIZIO IVAN, CACERES LLAMOSAS	SHAM - HSIANG SHEN	2025
		JOSE ANTONIO, TORRES GADEA	SHAM - HSIANG SHEN	2025
24	2DPATHVIZ: A SIMPLE AND COMPLETE 2D PATH PLANNING ALGORITHM	BRIAN SANTIAGO, CIKEL JARA	ZELALEM LEGESE HAILEMARIAM	2025
25	MALICIOUS TRAFFIC DETECTION IN NETWORKS USING MACHINE LEARNING TECHNIQUES	DAVID SEBASTIAN, VAZQUEZ TORRES	SHAN - HSIANG SHEN	2025
		GUSTAVO JULIAN, BARRIOS BORJA	SHAN - HSIANG SHEN	2025
		ROLANDO RAFAEL , FERREIRA CARRERAS	SHAN - HSIANG SHEN	2025



26	ONE HEALTH PHARMACOVIGILANCE	JOSE ANTONIO, TORRES GADEA	LIZ PAOLA NOGUERA ZAYAS	2025
27	SISTEMA DE PUBLICACION Y DISTRIBUCION DE CONTENIDO GENERADO POR USUARIOS PARA UNITY	VICTOR HUGO SEBASTIAN, CANO ESCOBAR	WEN KAI TAI	2025
28	SISTEMA DE PUBLICACION Y DISTRIBUCION DE CONTENIDO GENERADO POR USUARIOS PARA UNITY	PAULO NICOLAS, WAIMBERG PEÑA	WEN KAI TAI	2025

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