

Research Implementation Report: College of Engineering and Architecture (2023 - Mid - Year 2025)

CY 2023

Campus	Title of Project/Study	Proponents	Source of Fund	Approved Budget	Duration	Financial Statement	Brief Summary of Accomplishment	Remarks
Carig	Upgrading the Greenhouse facilities for high value commercial crops at csu carig campus	Roger P. Rumpon, Arthur G. Ibanez, Audy Quebral	DA- ACEF	₱ 5,000,000.00	Jan 2022 - Mar 2023	N/A	Completed	Completed
Carig	Design, Development and Fabrication of Ergonomic and Lightweight e-Trike Chassis and Suspension (Full Program)	Arthur G. Ibañez, Buencamino Martin, Mark Anthony Ibañez, Marc Angelo Cabaddu, JC Ancheta, Audy Quebral	DOST- PCIEERD	₱ 34,985,280.00	Jun 2021 - May 2023	N/A	Completed	Completed

Carig	Automatic Fire Incidence (AFI) Monitoring and Response System	Audy Quebral	DOST-R02	₱999,000.00	Oct 2022 - Oct 2023	N/A	On-going	On-going
Carig	Integrated Assessment and Analysis of Hydraulic Assets for Sustainable and Resilient Flood Control Infrastructure	Policarpio L. Mabborang, Jr.	DOST-PCIEERD	₱10,418,325.00	Nov 2021 - Nov 2024	N/A	On-going	On-going
Carig	Energy Efficiency Conservation for SUCs in Six (6) as Demonstration Sites-Region 02	Policarpio L. Mabborang, Jr, Michael Orpilla, Mark Anthony Ibañez, Oliver Cagumbay	DOST-GIA		Aug 2018 - Dec 2021	N/A	On-going- (Audited school – CSU Andrews, Carig, Gonzaga, Piat, USLT, SPUP, MCNP)	On-going
Carig	E-trike Installation and Stability Research	Policarpio L. Mabborang, Jr.	DOST-GIA	₱1,000,000.00	Feb 2018 - Dec 2021	N/A	On-going	On-going

Carig	Fabrication of the HITS Equipment Water Retort, Vacuum Fryer, and Cabinet Dryer	Roger Rumpon	DOST-GIA	₱1,319,000.00	Feb 2018 - Dec 2021	N/A	On-going	On-going
Carig	Documentation of Built Heritage at Risk in Cagayan Valley	Policarpio L. Mabborang, Jr., Arthur G. Ibanez, Lerma Egipto, Rosemarie Cabana, Kristinne Joyce Lara, Jan Justine Rodriguez	CHED Salikha-NCCA	₱799,680.00	Aug 2018 - Dec 2021	N/A	On-going	On-going
Carig	Assessment, Development and Preservation for Typhoon and Earthquake Resilient Ivatan Houses	Arthur G. Ibañez, Florentina Dumlao, Anderson Gonzales, Edmund Dela Cruz, Ralph S. Reyes, Audy	DOST-PCIEERD	₱10,316,818.00 (YI)	Feb 2023 - Feb 2025	N/A	On-going	On-going

		Quebral						
Carig	Design and Development of Load Bearing Interlocking Masonry Walls for Disaster Resilient Housing	John Michael Casibang, Mario Alariao, Edmund De la Cruz, Anderson Gonzales, Cyrus Kelly Macabangon, Oliver Doctolero, Ralph Angelo Estiller, Arthur G. Ibañez	Fund 10 1	₱300,000.00	Apr 2022 - Dec 2022	N/A	Prepared PR for materials needed in the experiment	On-going
Carig	Design and Development of Precast Walls for Disaster Resilient Housing	John Herman Padulip, Joseph Cabalbag, Michael Orpilla, Jowell John Talosig, Leomar Juliano, Ralph Reyes, Therese Zipagan,	Fund 10 1	₱300,000.00	Apr 2022 - Dec 2022	N/A	Prepared PR for materials needed in the experiment	On-going

		Joyce Banatao						
Carig	Design, Development, and Fabrication of Buggy (A Locally Made Minifour–Wheeled Electric Vehicle)	Arthur G. Ibañez (SL), Audy Quebral, Bryan Lacambra	Fund 10 1	₱250,000.00	Sep 2022 - Dec 2023	N/A	Newly Approved	Newly Approved
Carig	Typhoon Resiliency Assessment for Overhead Distribution	Michael B. Orpilla, Jhon Michael Casibang, Melody S. Paned, Oliver Cagumbay	GAA	₱50,000.00	Sep 20 19 - Oct 2021	N/A	Completed Computed Program – only the GIS mapping is unfinished (Budget returned already to Univ RDE)	On-going
Carig	Performance Monitoring and Evaluation Of 5kw Hybrid Solar Power System at The People’s Gymnasium (Tuguegarao	Policarpio L. Mabborang, Jr.	Fund 164	₱47,300.00	Aug 20 17 - Dec 2021	N/A	Scheduled Training for the new maintenance group of the new Admin	On-going

	City)							
Carig	Correlates students' beliefs on environmental protection	Anderson Gonzales, Cyrus Kelly Macabangon, Dexter Dumayag	Fund 164	₱40,000.00	Jul 2020 - Dec 2021	N/A	On-going (80 % declared accomplishment)	On-going
Carig	Design and Fabrication of a Solar LAMPARA (Light Amplified and Radiant Aurora)	Christopher Capili, Audy Quebral, May Anne Valencia, Eulogio Neil A. Mallillin	Fund 164	₱100,000.00	Jul 2020 - Dec 2021	N/A	On-going (80 % declared accomplishment)	On-going
Carig	Assessment of the intended engineering graduate attributes of civil engineering graduates' batch 2017	Cyrus Kelly A. Macabangon	Fund 164	₱10,000.00	Jul 2020 - Dec 2021	N/A	Floated questionnaire, Data gathering 40 % completed, Framework/objectives restricted based on in-house review comments	On-going
Carig	Design, Development, and Fabrication	Marc Angelo Cabaddu, JC Ancheta	Fund 164	₱30,000.00	Aug 2020 - Dec 2021	N/A	On-going (65% declared Accomplishment),	On-going

	of Smart Waste Composter						Electronic components wired using breadboard, mechanical parts fabrication	
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CY 2024

Campus	Title of Project/Study	Proponents	Source of Fund	Approved Budget	Duration	Financial Statement	Brief Summary of Accomplishment	Remarks
Carig	Assessment, Development and Preservation for Typhoon and Earthquake - Resilient Ivatan Houses (Study 1)	Arthur G. Ibañez	DOST-PCIEERD	₱ 10,316,808.00	Feb 2023 - Dec 2024	N/A	Completed/ Submitted terminal report (4th quarter)	Completed
Carig	Automatic Fire Incidence	Audy Quebral	DOST-R02	₱927,792.80		N/A	Completed (1st quarter)	Completed
Carig	FASTRAC LITE:	Michael	DOST-GIA	₱9,208,888.00	Nov 2024 -	N/A	On-going	On-going

	Development and Validation of the Improved and Cost-Effective Electric Conversion Kits for... e-Trike	Orpilla		(Y1: ₱5,431,276.00)				
Carig	Structural Strength of a Smart Engineered Greenhouse Across Varying Wind Loads in the Islands of Batanes	Arthur G. Ibañez	DOST-GIA	₱8,341,401.45 (Y1: ₱5,259,987.26)	Sep 2024 - Aug 2025	N/A	On-going	On-going
Carig	Conversion of Conventional Passenger Bus to Electric Public Utility Bus (ePUB)	Michael Orpilla, Mark Anthony Ibanez, Audy Quebral, Denn Agatep, Roger Rumpon, Bryan	DOST-PCIEERD	Y1: ₱10,607,692.00 Y2: ₱5,385,000	Dec 2023 - Dec 2024	N/A	Development of Drive Cycle (BYD & Quezon City route), Determination of Propulsion Requirement, Initial Body/ACU/Braking	On-going

		Lacambra					System Modification design	
Carig	Integrated Assessment and Analysis of Hydraulic Assets for Sustainable and Resilient Flood Control Infrastructure	Policarpio L. Mabborang, Jr.	DOST-PCIEERD	₱10,418,325.00 (Y3: ₱3,130,283.35)	Nov 2021 - Nov 2024	N/A	MOA w/ LGU-Illagan signed, Flood model validated, Miniature prototype fabricated & presented, 3rd stakeholder meeting conducted, IPO registration applied	On-going
Carig	Energy Efficiency Conservation for SUCs in Six (6) as Demonstration Sites-Region 02	Policarpio L. Mabborang, Jr, Michael Orpilla, Mark Anthony Ibañez, Oliver Cagumbay	DOST-GIA		Aug 2018 - Dec 2021	N/A	On-going- (Audited school – CSU Andrews, Carig, Gonzaga, Piat, USLT, SPUP, MCNP)	On-going
Carig	E-trike Installation and	Policarpio L. Mabborang,	DOST-GIA	₱1,000,000.00	Feb 2018 - Dec 2021	N/A	On-going	On-going

	Stability Research	Jr.						
Carig	Fabrication of the HITS Equipment Water Retort, Vacuum Fryer, and Cabinet Dryer	Roger Rumpon	DOST-GIA	₱1,319,000.00	Feb 2018 - Dec 2021	N/A	On-going	On-going
Carig	Documentation of Built Heritage at Risk in Cagayan Valley	Policarpio L. Mabborang, Jr., Arthur G. Ibanez, Lerma Egipto, Rosemarie Cabana, Kristinne Joyce Lara, Jan Justine Rodriguez	CHED Salikha Fund-NCCA	₱799,680.00	Aug 2018 - Dec 2021	N/A	On-going	On-going
Carig	Assessment, Development and Preservation for Typhoon and	Arthur G. Ibañez, Florentina Dumlao, Anderson Gonzales,	DOST-PCIEERD	Y1:₱10,316,818.00 Y2:₱3,492,792.26	Feb 2023 - Feb 2025	N/A	On-going	On-going

	Earthquake Resilient Ivatan Houses	Edmund Dela Cruz, Ralph S. Reyes, Audy Quebral						
Carig	Innovative Processing: Enhancing Technology for Sustainable Coffee Quality (Development of Coffee Depulper)	Roger Rumpon, James Cabildo, Jennyfer Rabanera, Roldan Ace Tabangay, Bernard Bisuecos, Christopher Capili, Buencamino Martin, Emer T. Quezon, Kevin Deniega, Elaine Ann Garcia, Marc Angelo Cabaddu	GAA	₱300,000.00	Mar 2024 - Dec 2024	N/A	Prepared initial design, Prepared documents for purchase request, Canvassing of materials	On-going
Carig	Design and Development	John Michael Casibang,	Fund 10 1	₱300,000.00	Apr 2024 - Dec 2024	N/A		On-going

	of Load Bearing Interlocking Masonry Walls for Disaster Resilient Housing	Mario Alariao, Edmund De la Cruz, Anderson Gonzales, Cyrus Kelly Macabangon, Oliver Doctolero, Ralph Angelo Estiller, Arthur G. Ibañez						
Carig	Design and Development of Precast Walls for Disaster Resilient Housing	John Herman Padulip, Joseph Cabalbag, Michael Orpilla, Jowell John Talosig, Leomar Juliano, Ralph Reyes, Therese Zipagan, Joyce	Fund 101	₱300,000.00	Apr 2022 - Dec 2022	N/A		On-going

		Banatao						
Carig	Design, Development, and Fabrication of Buggy (A Locally designed Minifour-Wheeled Electric Vehicle)	Arthur G. Ibañez (SL), Audy Quebral, Bryan Lacambra	Fund 10 1	₱250,000.00	Jan 2024 - Dec 2024	N/A	On-going	On-going
Carig	Design, Development and Fabrication of an Electric Bicycle (e-Bike)	Audy R. Quebral, Bryan Lacambra, Cierrie Joy Manaois	GAA	₱45,000	Jan 2024 - Dec 2024	N/A	On-going	On-going
Carig	Assessment of Electrical Energy Consumption of CSU Andrews Campus: Input	Mark Anthony Ibanez	GAA	₱7,000	Apr 2024 - Dec 2024	N/A	On-going	On-going

	to Energy Policy Formulation							
Carig	Conversion of Conventional Tricycle to e-Trike using Mid Drive Motor	Michael Orpilla, Ian Pagulayan	GAA	₱100,000	Apr 2024 - Dec 2024	N/A	Purchased electric monitor & battery, initial design for tricycle modification & electrical circuit	On-going
Carig	Fabrication of Pilot Scale Salt Making Equipment for salt production from seawater: Basis for Community Extension Program for CSU	Caesar Llapitan, Lily Antonette Agustin, William Appatad, Cristopher Capili, Marc Angelo Cabaddu	GAA	₱48,000.00	Jan 2024 - Dec 2026	N/A	Prepared PRs, Prepared design of interlocking blocks, Collected Rice Hull & identified design mix	On-going
Carig	Design and Fabrication of Typhoon Resilient Hybrid Solar Wind Street	Mark Anthony Ibañez, Ian Pagulayan, Arlene Patricio, Michael	GAA	₱75,000.00	Feb 2024 - Feb 2025	N/A	On-going	On-going

	Lightning System	Orpilla, Luke Mark Rivera						
Carig	Biodiversity Assessment in Tuguegarao City: Basis for Urban Biodiversity Program and Management	Policarpio L. Mabboran,Jr., Lirio Mangawil, Erwin Torio, Rachel Biag, Ma. Jesusa I. Santos, Franz Allen Estrella	GAA	₱40,000.00	Feb 2024 - Feb 2025	N/A	On-going	On-going
Carig	Performance Evaluation of Selected Unsignalized Intersections in Tuguegarao City	Ralph Angelo Estiller, Emer T. Quezon, Arthur Ibañez	GAA	₱45,000.00	Feb 2024 - Mar 2025	N/A	Prepared and submitted PRs, Identified unsignalized intersections, Prepared plans on data collection	Newly Approved
Carig	Effect and Sustainability of Calcined Iguig Clay Powder and Incinerated Non-Hazardous	Emer Quezon, Arthur Ibañez, Joseph Cabalbag, Frances Lorane	GAA	₱50,000.00	Feb 2024 - Dec 2024	N/A	Ongoing collection of raw materials (Clay, biomedical waste, aggregates, bitumen, lime)	Newly Approved

	Biomedical Wastes Ash... for Sustainable HMA	Calapini, Ralph Angelo Estiller, John Michael Casibang						
Carig	Assessment of Road Infrastructure Facilities, Public Transport Barriers and Challenges for Persons with Disabilities in Cagayan	Emer Quezon, Arthur Ibañez, Frances Lorane Calapini, Ralph Angelo Estiller, John Michael Casibang, Jowell John Talosig, Angelica Coballes, Leomar Juliano	GAA	₱50,000.00	Feb 2024 - Dec 2024	N/A	Prepared and submitted PRs, Drafted road inventory survey form, Drafted survey questionnaire (for validation)	Newly Approved
Carig	Performance Evaluation of Different Substrates in Strawberries	Elaine Anne Garcia Roldan Ace Tabangay, James	GAA	₱55,000.00	Feb 2024 - Feb 2025	N/A	Procurement of materials (seeds, seedlings, substrate)	Newly Approved

	and Lettuce under Hydroponic System	Cabildo, Audy Quebral, Roger Rumpon						
Carig	Impact Assessment of the Extension Program of the CSU- Carig Campus	Dennis Bacuyag, Joel Binasoy, Rio Averil Pamittan, Juliet Pelovello, Christopher Capii, Ralph angelo Estiller, Jomel Manuel, Jezreel Pattaguan, Generino Siddayao, Rovina Guiyab	GAA	₱75,000.00	Feb 2024 - Feb 2025	N/A	Drafted & validated impact evaluation tool, Started data gathering & courtesy visits, Submitted PRs, Conducted at least meeting with other proponents from the college	Newly Approved
Carig	Assessment of the Teaching Strategies to Bachelor of Science in	Bryan Lacambra, Philip Madrigo, Vilword	GAA	₱55,000.00	Feb 2024 - Dec 2024	N/A	Ongoing	Newly Approved

	Industrial Technology major in Automotive Technology...	Manablug, Decel Abel, Pedro Calimag, Jan Dominic Umengan, Rio Averil Pamittan, Jennifer Ibanez, Cristina Ancheta						
Carig	Design and Evaluation of Pellet Mill for Animal Feed Production	Kevin Deniega, Jennyfer Rabanera, Elaine Ann Garcia, Roger Rumpon	GAA	₱110,000.00	Feb 2024 - Feb 2025	N/A	Meeting for benchmarking & design optimization, Procurement of one pelleting machine, Meeting for conceptual design	Newly Approved
Carig	Analysis of Licensure Examination Performance of the CSU Engineering	John Michael Casibang, Ruth N. Maguddayao, Roger P. Rumpon,	GAA	₱100,000.0	Feb 2024 - Dec 2024	N/A	Special meeting with CEO, Meeting with CEO & Dir. Quezon, Inception and Workshop for all	Newly Approved

	Programs: Basis for Intervention	Jennifer Rabanera, James Cabildo, Arthur G. Ibañez, Emer T. Quezon, et al.					approved 2024 RDE projects	
Carig	Correlates of Students’ Beliefs on Environmental Protection	Anderson Gonzales, Cyrus Kelly Macabangon, Dexter Dumayag	Fund 164		Aug 2020 - Jan 2024	N/A	Completed (1st quarter)	Completed
Carig	Design and Fabrication of a Solar LAMPARA (Light Amplified and Radiant Aurora)	Christopher Capili, Audy Quebral, May Anne Valencia, Eulogio Neil A. Mallillin	Fund 164	₱100,000.00	Apr 2024 - Dec 2024	N/A	Data gathering and analysis, Preparation of the Terminal report is ongoing	On-going
Carig	Assessment of the intended engineering graduate	Cyrus Kelly A. Macabangon	Fund 164	₱10,000.00	Jul 2020 - Dec 2021	N/A	For preparation and submission of terminal report	On-going

	attributes of civil engineering graduates' batch 2017							
Carig	E-Profiling System for the Town of Gonzaga and Selected Barangays	James Cabildo, Rose Jean Oñate, Ruth Maguddayao, Wendell Paned, ..., Emer T. Quezon	50 % Fund 164/ 50 % Fund 101	₱50,000.00	Jul 2024 - Dec 2024	N/A	60 % accomplished, Data gathering, Certified questionnaire, MOA for final checking, Developed e-profiling system	On-going
Carig	Web-based Record Management System for the Forensic Unit of PNP R02	Bernard Bisuecos, Rose Jean Oñate, Gilbert Calubaquib, ..., Emer T. Quezon	50 % Fund 164/ 50 % Fund 101	₱50,000.00	Jul 2024 - Dec 2024	N/A	80 % accomplished, Data gathering, MOA Signing, Presentation of Developed web-based RMS	On-going
Carig	Smart Portable N-P-K Analyzer	Bernard Bisuecos, Melody Paned,	50 % Fund 164/ 50 % Fund 101	₱50,000.00	Jul 2024 - Dec 2024	N/A	70 % accomplished, Designed NPK analyzer device,	On-going

		Jerome Viador, ..., Emer T. Quezon					Certified questionnaire, MOA for final checking	
Carig	Banca Tracker and Emergency Alert System	Christopher Capili, Cyziona Dayl Mendoza, Oliver Cagumbay, ..., Emer T. Quezon	50 % Fund 164/ 50 % Fund 10 1	₱50,000.00	Jul 2024 - Dec 2024	N/A	Designed Banca device, Certified questionnaire, MOA for final checking	On-going
Carig	Distribution Transformer Load Management and Fault Detection	Michael Orpilla, Arlene Patricio, Ian Pagulayan, Luke Mark Rivera, Harley Tolentino, Brian E. Agatep	50 % Fund 164/ 50 % Fund 10 1	₱77,000.00	Jul 2024 - Dec 2024	N/A	PR of materials for the prototype, Initial Consultation with CAGELCO II	On-going
Carig	Employers Feedback for the Engineering	Melody Paned, Rosejean Onate, Maria	Fund 164	₱50,000.00	May 2024 - Sep 2024	N/A	90 % accomplished, analyze data, interpret results	On-going

	Graduates of CSU: An Explanatory Sequential Mixed Method Approach	Nina Dioceth Sales, John Wendell R. Paend, Ruth Maguddayao, Czyione Dayl A. Mendoza, Oliver Cagumbay						
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CY 2025 (Mid - Year / As of Q2)

Campus	Title of Project/Study	Proponents	Source of Fund	Approved Budget	Duration	Financial Statement	Brief Summary of Accomplishment	Remarks
Carig	Inventory and Profiling for Foreshore Areas in Region 02	Arthur G. Ibanez, Emer T. Quezon, Dennis M. Bacuyag, Roger P. Rumpon, Rex Lee Dullit, Audy Quebral,	DENR	₱11,684,040.00	Jul 2025 - Dec 2025	N/A	Newly Approved	Newly Approved

		Grace Angelito, Rodel Francisco Alegado, Charmie Calvo, Froilan Pacris, Policarpio L. Mabborang, Jr., Ralph Angelo Estiller, Joel P. Binasoy, Dennis Bacuyag, Djovi Durante						
Carig	Design, Development, and Fabrication of an All-Electric 18- seater Tourist Transport Tram with a Charging Station for Intramuros Manila	Audy Quebral	DOST- PCIEERD	₱3,680,720.00	Jan 2025 - Nov 2025	N/A	On-going	On-going
Carig	Commercialization	Arthur G.	DOST	₱2,090,640.00	Jan 2024 -	N/A	On-going	On-going

	of Ready Entrepreneurial (CORE) Product Prototypes at DOST-CSU FIC	Ibanez, Denis Policar, Claudette Patulay, Aiza Duldulao, Mary Anne Arugay, Jaymark Pinto, Joan Ivy Garcia	R02		May 2025			
Carig	IMPACT: Innovation and Market Prototyping for Advancing Commercialization and Technology	Arthur Ibanez, Denis Policar	DOST-R02	₱2,929,928.00	Jan 2025 - Dec 2025	N/A	On-going	On-going
Carig	Performance Evaluation of Postharvest Machineries, Equipment, and Facilities of all Programs of DA-FR02	James Cabildo, Roger P. Rumpon	DA-R02	₱1,000,000.00	Jan 2025 - Jun 2025	N/A	On-going	On-going
Carig	Design and	Mark Anthony	DOST-	₱4,895,936.00	Jan 2025 -	N/A	On-going	On-going

	Development of Standardized Battery Swapping Light Fleet Electric Vehicles (Battery Swapping)	Ibanez, Gilbert Calubaquib, Arthur Ibanez, Rio Averil Pamittan, Christopher Capili	PCIEERD		Jun 2026			
Carig	FASTRAC LITE: Development and Validation of the Improved and Cost-Effective Electric Conversion Kits for... e-Trike	Michael Orpilla, Arthur Ibanez, Bernard Bisuecos, Roger Rumpon, Ian Pagulayan	DOST-GIA	₱9,208,888.00 (YI: ₱5,431,276.00)	Nov 2024 - Jun 2026	N/A	On-going	On-going
Carig	Structural Strength of a Smart Engineered Greenhouse Across Varying Wind Loads in the Islands of Batanes	Arthur G. Ibañez, Roger Rumpon, James Cabildo, Roldan Ace Tabangay	DOST-GIA	₱8,341,401.45 (YI: ₱5,259,987.26)	Sep 2024 - Aug 2025	N/A	On-going	On-going
Carig	Integrated	Policarpio L.	DOST-	₱10,418,325.00	Nov 2021 -	N/A	On-going	On-going

	Assessment and Analysis of Hydraulic Assets for Sustainable and Resilient Flood Control Infrastructure	Mabborang, Jr.	PCIEERD	(Y3: ₱3,130,283.35)	Nov 2024			
Carig	Conversion of Conventional Passenger Bus to Electric Public Utility Bus (ePUB)	Michael Orpilla, Mark Anthony Ibanez, Audy Quebral, Denn Agatep, Roger Rumpon, Bryan Lacambra	DOST-PCIEERD	Y1:₱ 10,607,692.00 Y2:₱ 5,385,000	Dec 2023 - Dec 2024	N/A	On-going	On-going
Carig	Energy Efficiency Conservation for SUCs in Six (6) as Demonstration Sites-Region 02	Policarpio L. Mabborang, Jr, Michael Orpilla, Mark Anthony Ibañez, Oliver Cagumbay	DOST-GIA		Aug 2018 - Dec 2021	N/A	On-going	On-going
Carig	E-trike Installation and Stability	Policarpio L. Mabborang,	DOST-GIA	₱1,000,000.00	Feb 2018 - Dec 2021	N/A	On-going	On-going

	Research	Jr.						
Carig	Fabrication of the HITS Equipment Water Retort, Vacuum Fryer, and Cabinet Dryer	Roger Rumpon	DOST-GIA	₱1,319,000.00	Feb 2018 - Dec 2021	N/A	On-going	On-going
Carig	Documentation of Built Heritage at Risk in Cagayan Valley	Policarpio L. Maborang, Jr. Arthur G. Ibanez, Lerma Egipto, Rosemarie Cabana, Kristinne Joyce Lara, Jan Justine Rodriguez,	CHED Salikha-NCCA	₱799,680.00	Aug 2018 - Dec 2021	N/A	On-going	On-going
Carig	Assessment, Development, and Preservation for Typhoon and Earthquake Resilient Ivatan Houses	Arthur G. Ibañez, Florentina Dumlao, Anderson Gonzales, Edmund Dela Cruz, Ralph S. Reyes, Audy	DOST-PCIEERD	Y1:₱10,316,818.00 Y2:₱3,492,792.26	Feb 2023 - Feb 2025	N/A	On-going	On-going

		Quebral						
Carig	Assessment of Electrical Energy Consumption of CSU Andrews Campus: Input to Energy Policy Formulation	Mark Anthony Ibanez	GAA	₱7,000	Apr 2024 - Jan 2025	N/A		Completed
Carig	Impact Evaluation of College of Public Administration Extension Program: Empowering Citizens for Smarter Local Governance	Dennis Bacuyag, Joel Binasoy	GAA	₱75,000.00	Feb 2024 - Feb 2025	N/A	Drafted & validated tool, Started data gathering & courtesy visits, Submitted PRs	On-going
Carig	Assessment of Road Infrastructure Facilities, Public Transport Barriers and Challenges for Persons with Disabilities in	Emer Quezon, Arthur Ibañez, Frances Lorane Calapini, Ralph Angelo	GAA	₱50,000.00	Feb 2024 - Dec 2024	N/A	Completed	Completed

	Cagayan	Estiller, John Michael Casibang, Jowell John Talosig, Angelica Coballes, Leomar Juliano						
Carig	Innovative Processing: Enhancing Technology for Sustainable Coffee Quality (Development of Coffee Depulper)	Roger Rumpon, James Cabildo, Jennyfer Rabanera, Roldan Ace Tabangay, Bernard Bisuecos, Christopher Capili, Buencamino Martin, Emer T. Quezon, Kevin Deniega, Elaine Ann	GAA	₱300,000.00	Mar 2024 - Dec 2024	N/A	Prepared initial design, Prepared PR documents, Canvassing materials	On-going

		Garcia, Marc Angelo Cabaddu						
Carig	Design and Development of Load Bearing Interlocking Masonry Walls for Disaster Resilient Housing	John Michael Casibang, Mario Alariao, Edmund De la Cruz, Anderson Gonzales, Cyrus Kelly Macabangon, Oliver Doctolero, Ralph Angelo Estiller, Arthur G. Ibanez	Fund 101	₱300,000.00	Apr 2024 - Dec 2024	N/A		On-going
Carig	Design and Development of Precast Walls for Disaster Resilient Housing	John Herman Padulip, Joseph Cabalbag, Michael Orpilla, Jowell John Talosig, Leomar	Fund 101	₱300,000.00	Apr 2022 - Dec 2022	N/A		On-going

		Juliano, Ralph Reyes, Therese Zipagan, Joyce Banatao						
Carig	Design, Development, and Fabrication of Buggy (A Locally designed Minifour– Wheeled Electric Vehicle)	Arthur G. Ibañez (SL), Audy Quebral, Bryan Lacambra	Fund 101	₱250,000.00	Jan 2024 - Dec 2024	N/A	On-going	On-going
Carig	Design, Development and Fabrication of an Electric Bicycle (e-Bike)	Audy R. Quebral, Bryan Lacambra, Cierrie Joy Manaois	GAA	₱45,000	Jan 2024 - Dec 2024	N/A	On-going	On-going
Carig	Conversion of Conventional Tricycle to e-Trike using Mid Drive Motor	Michael Orpilla, Ian Pagulayan	GAA	₱100,000	Apr 2024 - Dec 2024	N/A	Purchased electric motor & battery, initial design for modification & circuit	On-going

Carig	Fabrication of Pilot Scale Salt Making Equipment for salt production from seawater...	Caesar Llapitan, Lily Antonette Agustin, William Appatad, Cristopher Capili, Marc Angelo Cabaddu	GAA	₱48,000.00	Jan 2024 - Dec 2026	N/A	Prepared PRs, Prepared block design, Collected Rice Hull & identified mix	On-going
Carig	Design and Fabrication of Typhoon Resilient Hybrid Solar Wind Street Lightning System	Mark Anthony Ibañez, Ian Pagulayan, Arlene Patricio, Michael Orpilla, Luke Mark Rivera	GAA	₱75,000.00	Feb 2024 - Feb 2025	N/A	On-going	On-going
Carig	Biodiversity Assessment in Tuguegarao City: Basis for Urban Biodiversity Program and Management	Policarpio L. Mabboran,Jr., Lirio Mangawil, Erwin Torio, Rachel Biag, Ma. Jesusa I. Santos, Franz Allen Estrella	GAA	₱40,000.00	Feb 2024 - Feb 2025	N/A	On-going	On-going

Carig	Performance Evaluation of Selected Unsignalized Intersections in Tuguegarao City	Ralph Angelo Estiller, Emer T. Quezon, Arthur Ibañez	GAA	₱45,000.00	Feb 2024 - Mar 2025	N/A	Prepared PRs, Identified intersections, Prepared data collection plans	On-going
Carig	Effect and Sustainability of Calcined Iguig Clay Powder and Incinerated Non-Hazardous Biomedical Wastes Ash... for Sustainable HMA	Emer Quezon, Arthur Ibañez, Joseph Cabalbag, Frances Lorane Calapini, Ralph Angelo Estiller, John Michael Casibang	GAA	₱50,000.00	Feb 2024 - Dec 2024	N/A	Ongoing collection of raw materials (Clay, biomedical waste, aggregates, bitumen, lime)	On-going
Carig	Performance Evaluation of Different Substrates in Strawberries and Lettuce under Hydroponic System	Elaine Anne Garcia Roldan Ace Tabangay, James Cabildo, Audy Quebral, Roger	GAA	₱55,000.00	Feb 2024 - Feb 2025	N/A	Procurement of materials (seeds, seedlings, substrate)	On-going

		Rumpon						
Carig	Impact Assessment of the Extension Program of the CSU-Carig Campus	Rio Averil Pamittan, Juliet Pelovello, Christopher Capii, Ralph Angelo Estiller, Jomel Manuel, Jezreel Pattaguan, Generino Siddayao, Rovina Guiyab	GAA	₱75,000.00	Feb 2024 - Feb 2025	N/A	Drafted & validated tool, Started data gathering & courtesy visits, Submitted PRs, Conducted meeting	On-going
Carig	Design and Evaluation of Pellet Mill for Animal Feed Production	Kevin Deniega, Jennyfer Rabanera, Elaine Ann Garcia, Roger Rumpon	GAA	₱110,000.00	Feb 2024 - Feb 2025	N/A	Meeting for benchmarking & optimization, Procurement of machine, Meeting for conceptual design	On-going
Carig	Analysis of Licensure Examination	John Michael Casibang, Ruth N.	GAA	₱100,000.0	Feb 2024 - Dec 2024	N/A	Meetings held, Inception and Workshop	On-going

	Performance of the CSU Engineering Programs: Basis for Intervention	Maguddayao, Roger P. Rumpon, Jennifer Rabanera, James Cabildo, Arthur G. Ibañez, Emer T. Quezon, Joel Talosig, Mary Jane Calgui, et al.					conducted	
Carig	Design and Fabrication of a Solar LAMPARA (Light Amplified and Radiant Aurora)	Christopher Capili, Audy Quebral, May Anne Valencia, Eulogio Neil A. Mallillin	Fund 164	₱100,000.00	Apr 2024 - Dec 2024	N/A	Data gathering and analysis, Terminal report preparation ongoing	On-going
Carig	Assessment of the intended engineering graduate attributes of civil engineering graduates' batch	Cyrus Kelly A. Macabangon	Fund 164	₱10,000.00	Jul 2020 - Dec 2021	N/A	For preparation and submission of terminal report	On-going

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Carig	E-Profiling System for the Town of Gonzaga and Selected Barangays	James Cabildo, Rose Jean Oñate, Ruth Maguddayao, Wendell Paned, ..., Emer T. Quezon	50% Fund 164/ Fund 10 1	₱50,000.00	Jul 2024 - Dec 2024	N/A	60% accomplished, Data gathering, Certified questionnaire, MOA for final checking, Developed system	On-going
Carig	Web-based Record Management System for the Forensic Unit of PNP R02	Bernard Bisuecos, Rose Jean Oñate, Gilbert Calubaquib, ..., Emer T. Quezon	50% Fund 164/ Fund 10 1	₱50,000.00	Jul 2024 - Jun 2025	N/A	Completed (submitted terminal report)	Completed
Carig	Smart Portable N-P-K Analyzer	Bernard Bisuecos, Melody Paned, Jerome Viador, ..., Emer T. Quezon	50% Fund 164/ Fund 10 1	₱50,000.00	Jul 2024 - Dec 2024	N/A	Submitted terminal report	Completed

Carig	Banca Tracker and Emergency Alert System	Christopher Capili, Cyzione Dayl Mendoza, Oliver Cagumbay, ..., Emer T. Quezon	50% Fund 164/ Fund 10 1	₱50,000.00	Jul 2024 - Dec 2024	N/A	Designed Banca device, Certified questionnaire, MOA for final checking	On-going
Carig	D'CompaX- design and Development of a Computer Aided Examination for CSU	Generino Siddayao, Virgil Vaugh Pico, Miguel M. Maguddayao, Ruth Ann M. Bingcang, Vince Cabasag, Trician Jan T. Villarosa	50% Fund 164/ Fund 10 1	₱50,000.00	Jul 2024 - Jan 2025	N/A	Completed	Completed
Carig	Distribution Transformer Load Management and Fault Detection	Michael Orpilla, Arlene Patricio, Ian Pagulayan, Luke Mark Rivera, Harley	50% Fund 164/ Fund 10 1	₱77,000.00	Jul 2024 - Dec 2024	N/A	PR of materials for prototype, Initial Consultation with CAGELCO II	On-going

		Tolentino, Brian E. Agatep						
Carig	Employers Feedback for the Engineering Graduates of CSU: An Explanatory Sequential Mixed Method Approach	Melody Paned, Rosejean Onate, Maria Nina Dioceth Sales, John Wendell R. Paend, Ruth Maguddayao, Czyione Dayl A. Mendoza, Oliver Cagumbay	Fund 164	₱50,000.00	May 2024 - Sep 2024	N/A	90 % accomplished, analyze data, interpret results	On-going
Carig	Model Development and Analysis of Essential Factors Affecting Road Construction Labor Productivity Using Hybrid SD- DES Approach	Emer Quezon, Arthur Ibañez, John Michael Casibang	Fund 164	₱25,000.00	May 2025 - Dec 2025	N/A	Newly Approved	Newly Approved
Carig	Impacts of	Ralph Angelo	Fund 164	₱5,000.00	May 2025 -	N/A	Newly Approved	Newly

	Extreme Flooding Event on the Volume-to-Capacity Ratio of Major Road Networks: The Case of Tuguegarao City	Estiller, Emer Quezon, John Michael Casibang			Dec 2025			Approved
Carig	Evaluation of Engineering Programs Effectiveness... Project 1: Evaluation of Program Outcomes (Pos) and PEOs Achievement	Melody Paned, Mary Jane Calagui, Oliver Doctolero, Ruth Maguddayao, Rosejean Oñate, Ma. Niña Dioceth Sales, Joseph Cabalbag, Ian Pagulayan, John Wendell Paned, et al.	Fund 164	₱15,000.00	May 2025 - Dec 2025	N/A	Newly Approved	Newly Approved
Carig	Study 2: Bridging the Gap Between Hard and Soft Skills in	Oliver Doctolero, Bryan Agatep,	Fund 164		May 2025 - Dec 2025	N/A	Newly Approved	Newly Approved

	Engineering Education: Indicators, Perspective and Challenges	James Cabildo, Oliver Cagumbay, Mary Jane Calagui, Leomar Juliano, Ruth Maguddayao, Melody Paned, Ma. Niña Dioceth Sales, et al.						
Carig	Design, Development and Fabrication of 3+1 Seater eTrike	Bryan Lacambra, Emer Quezon, Roger Rumpon, Michael Orpilla, Cierrie Joy C. Manaois, Florentino Dumlao, Lemuel Purisma, et	Fund 164	₱295,100.00	Mar 2025 - Mar 2026	N/A		On-going

		al.						
Carig	Design, Development and Fabrication of an All-Electric 10+1 Seater Tourist Transport Tram	Audy Quebral	EMRDC Fund	₱1,476,818.57	Jan 2025 - Dec 2025	N/A		On-going

Prepared By:


ENGR. JAMES B. CABILDO
College Research Coordinator