

CURRICULUM VITAE

1. NAME:

IVAN ANDRES MONTERO IZQUIERDO

2. EDUCATION:

- MECHANICAL ENGINEER, UNIVERSIDAD POLITECNICA SALESIANA, 2003
- DOCTORATE IN CLIMATE TECHNOLOGY AND ENERGY EFFICIENCY IN BUILDINGS, UNIVERSITAT ROVIRA I VIRGILI, 2012

3. PROFESSIONAL EXPERIENCE:

- INTERNAL

- UNIVERSIDAD DE CUENCA, CONTRATO POR OBRA CIERTA, 2016-02 - 2016-02
- UNIVERSIDAD DE CUENCA, CONTRATO POR OBRA CIERTA, 2017-06 - 2017-12
- UNIVERSIDAD DE CUENCA, CONTRATO POR OBRA CIERTA, 2018-01 - 2018-12
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2018-09 - 2019-02
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2019-03 - 2019-08
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2019-09 - 2019-10
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2019-11 - 2020-02
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME), 2020-03 - 2020-08
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2020-09 - 2020-08
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2020-10 - 2020-10
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2020-11 - 2021-02
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2021-03 - 2021-08
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2021-09 - 2021-12
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2022-01 - 2022-02
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2022-03 - 2022-08
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2022-09 - 2022-12
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2023-01 - 2023-02
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2023-03 - 2023-08
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2023-09 - 2023-

12

- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2024-01 - 2024-02
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2024-03 - 2024-08
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2024-09 - 2024-12
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2025-01 - 2025-02
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2025-03 - 2025-08
- UNIVERSIDAD DE CUENCA, ADJUNCT PROFESSOR (FULL-TIME, PHD.), 2025-09 - 2025-12

- EXTERNAL

- NATIONAL INSTITUTE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY, GENERAL TECHNICAL COORDINATOR, 2013-06 - 2014-12
- REGIONAL AMAZONIAN UNIVERSITY IKIAM, TEACHER, 2015-05 - 2015-06
- REGIONAL AMAZONIAN UNIVERSITY IKIAM, RESEARCH SERVICES COORDINATOR, 2015-06 - 2016-10
- UNIVERSITY OF AZUAY, PART-TIME PROFESSOR WITH A DOCTOR OF PHILOSOPHY DEGREE, 2017-09 - 2018-08

4. PROFESSIONAL DEVELOPMENT ACTIVITIES:

- INTERNATIONAL SOLAR ENERGY SOCIETY WORLD CONGRESS, INTERNATIONAL SOCIETY FOR SOLAR ENERGY, SCIENTIFIC CONGRESS, 2013
- ARTIFICIAL NEURAL NETWORKS PROCESS MODELING TRAINING COURSE, ROVIRA AND VIRGIL UNIVERSITY, COURSE, 2010
- FRENCH LANGUAGE AND CULTURE COURSE, UNIVERSITY OF LAUSANNE, COURSE, 2003
- ENERGY USE OF BIOLOGICAL MASS, NATIONAL INSTITUTE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY, WORKSHOP, 2012
- INTERNATIONAL SEMINAR SHARING WIND POWER STRATEGIES AND APPLYING THE CLEAN DEVELOPMENT MECHANISM, IBERO-AMERICAN NETWORK FOR WIND GENERATION, CONFERENCE, 2004
- ENERGY EFFICIENCY IN BUILDINGS, CENTRAL ELECTRICITY COMPANY-HYDROPOWER, COURSE, 2012
- APPLICATIONS OF DIGITAL THEMATIC INFORMATION FOR THE RIO PAUTE WATERSHED IN ARCGIS 8.3, UNIVERSITY OF AZUAY, COURSE, 2007
- INTERNATIONAL CONGRESS DEVELOPMENT OF PROJECTS FOR ELECTRIC ENERGY GENERATION, COLLEGE OF ELECTRICAL AND ELECTRONIC ENGINEERS OF ECUADOR, CONGRESS, 2007
- INTERNATIONAL SEMINAR ON CLEANER PRODUCTION AND TREATMENT OF INDUSTRIAL WASTEWATER, UNIVERSITY OF CUENCA, CONFERENCE, 2002
- DIRECT USES OF GEOTHERMAL ENERGY AND GEOTHERMAL HEAT PUMPS, CENTER

- OF EXCELLENCE IN GEOTHERMAL ENERGY OF THE ANDES (CEGA), COURSE, 2021
- DATA PROCESSING THROUGH ARTIFICIAL INTELLIGENCE TECHNIQUES BASED ON PYTHON PROGRAMMING LANGUAGE, DEPARTMENT OF CHEMICAL SCIENCES, COURSE, 2021
- MICROCURRICULAR PLANNING, UNIVERSITY OF CUENCA, COURSE, 2019
- FIRST CONGRESS OF RENEWABLE ENERGY AND ENERGY EFFICIENCY 2019, UNIVERSITY OF AZUAY, SCIENTIFIC CONGRESS, 2019
- TECTONIC JOURNEYS ENERGY AND HABITAT, UNIVERSITY OF CUENCA, SYMPOSIUM, 2019
- NEW TRENDS IN ENVIRONMENTAL IMPACT ASSESSMENT: LIFE CYCLE ANALYSIS (LCA), UNIVERSITY OF CUENCA, WORKSHOP, 2019
- FIRST INTERNATIONAL FORUM ON ELECTRIC MOBILITY: TOWARDS THE DECARBONIZATION OF TRANSPORTATION IN ECUADOR, MINISTRY OF TRANSPORTATION AND PUBLIC WORKS, SYMPOSIUM, 2018
- INTERNATIONAL TRAINING PROGRAM ON SOLAR ENERGY TECHNOLOGY, INDIAN TECHNOLOGICAL AND ECONOMIC ASSISTANCE GOVERNMENT OF INDIA, WORKSHOP, 2020
- HUMAN RIGHTS AND RIGHTS OF INDIVIDUALS WITH DISABILITIES, PEOPLE'S DEFENDER, COURSE, 2024
- SOLAR THERMAL AND PHOTOVOLTAIC SYSTEMS, CENTRAL DE INFORMACIÓN DIFUSIÓN ACERCA DEL AMBIENTE, COURSE, 2024
- ENHANCEMENT OF FORMATIVE CAPABILITIES IN HYDROGEN UNDER CARBON (HBC), ACADEMIC VICE-PRESIDENCY, COURSE, 2023
- FOURTH INTERNATIONAL CONGRESS OF RENEWABLE ENERGY AND ENERGY EFFICIENCY, UNIVERSITY OF AZUAY, SCIENTIFIC CONGRESS, 2024
- EXTERNAL ACADEMIC FACILITATOR OF THE CES, SUPERIOR COUNCIL OF HIGHER EDUCATION (SCHE), COURSE, 2017
- LATIN AMERICAN AND CARIBBEAN ENERGY EFFICIENCY SEMINAR NUMBER SIX, LATIN AMERICAN ENERGY ORGANIZATION, CONFERENCE, 2014
- SECOND EUROPEAN CONFERENCE ON POLYGENERATION, ROVIRA AND VIRGIL UNIVERSITY, SCIENTIFIC CONGRESS, 2011
- INTERMEDIATE DESIGNBUILDER WORKSHOP, ROVIRA AND VIRGIL UNIVERSITY, COURSE, 2009
- FRENCH LANGUAGE AND CULTURE COURSE, UNIVERSITY OF LAUSANNE, COURSE, 2003
- UNIVERSITY PEDAGOGY COURSE: ACTIVE LEARNING METHODOLOGIES FOR TEACHING, UNIVERSIDAD DE CUENCA, COURSE, 2022
- SOLAR WATER HEATING SYSTEMS (THERMOSOLAR ENERGY), INSTITUTE OF RENEWABLE ENERGY, CURSO, 2023
- CURSO DE GÉNERO, UNIVERSIDAD DE CUENCA, CURSO
- DOCENCIA EN TERMODINÁMICA Y MECÁNICA DE FLUIDOS, UNIVERSITAT ROVIRA I VIRGILI, CURSO, 2011
- SEMINARIO INTERNACIONAL DE ENERGÍAS RENOVABLES OPORTUNIDADES PARA LA

GENERACIÓN DE EMPLEO, ILUSTRE MUNICIPALIDAD DE CUENCA, SEMINARIO, 2007
•IMPLEMENTADOR Y AUDITOR INTERNO UNE-ISO 50001:2018, ORGANIZACIÓN DE LAS NACIONES UNIDAS PARA EL DESARROLLO INDUSTRIAL, CURSO, 2025

5. CONTRIBUTIONS TO THE DISCIPLINE:

- SEMINARIO CALLE, D. P., ORTEGA MALDONADO, M. I., PINOS VELEZ, V. P., CISNEROS RAMOS, J. F., MONTERO IZQUIERDO, I. A., ECHEVERRIA PAREDES, P. A., DUQUE SARANGO, P. J., AND ALVAREZ LLORET, E. P., “*BIODIESEL PRODUCTION BY TRANSESTERIFICATION OF RECYCLED OIL CATALYZED WITH ZINC OXIDE PREPARED STARTING FROM USED BATTERIES*,” SCOPUS, 2023.
- CARRION CHAMBA, W. O., MURILLO TORRES, W. A., AND MONTERO IZQUIERDO, I. A., “*A REVIEW OF THE STATE-OF-THE-ART OF SOLAR THERMAL COLLECTORS APPLIED IN THE INDUSTRY*,” SCIELO, 2022.
- TACURI SARMIENTO, D. M., ANDRADE HERRERA, C. J., ALVAREZ LLORET, E. P., ABRIL GONZALEZ, M. F., SALAMEA PIEDRA, T. S., PINOS VELEZ, V. P., JARA COBOS, L. E., AND MONTERO IZQUIERDO, I. A., “*DESIGN AND DEVELOPMENT OF A CATALYTIC FIXED-BED REACTOR FOR GASIFICATION OF BANANA BIOMASS IN HYDROGEN PRODUCTION* ,” SCOPUS, 2022.
- CARRION CHAMBA, W. O., MURILLO TORRES, W. A., NARANJO ULLOA, C. N., VALDIVIESO GARCIA, K. V., MONTERO IZQUIERDO, I. A., AND ACOSTA PAZMIÑO, I. P., “*DESIGN AND IMPLEMENTATION OF A WEB-BASED RESIDENTIAL ENERGY ASSESSMENT PLATFORM: A CASE STUDY IN CUENCA-ECUADOR*,” SCOPUS, 2021.