**Curriculum Vitae**

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| PERSONAL INFORMATION | **CASIMIRO, Maria Regina Guerreiro** |
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| reginacasimiro@gmail.com |
| @reginacasimiro  Portuguese |

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| EDUCATION AND TRAINING |  | |
| Oct. 2011 to July 2012 | Advanced Diploma in Data and Systems Analysis |  |
| **University of Oxford (U.K.)** | |
| * Analysis and design of practical real-life computing applications, using modern analysis and design techniques. | |
| Oct. 2005 to Nov. 2009 | MBA with distinction |  |
| **Warwick Business School (U.K.)** | |
| * Concentration in Finance, Business Modelling and Project Finance (including Public-Private Partnerships). * Thesis Title: Which Risks Should the Government Retain in PPPs? Insights from Portugal High Speed Rail Contract. | |
| Oct. 1998 to Apr. 2000 | Master degree in Water and Sanitation Engineering |  |
| **Universidade Nova de Lisboa (Portugal)** | |
| * Planning, design, implementation and manage projects in the water and wastewater industries and be able to identify problems in this area, and initiate and implement integrated solutions. | |

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| Oct. 1984 to Oct. 1989 | Chemical Engineering degree (5 years degree) |  |
| **Instituto Superior Técnico (Portugal)** | |
| * Combines knowledge in Chemistry, Physics, Mathematics and Engineering Sciences with a view to carry out research, conceive, project and operate systems that transform chemical substances in final products through chemical, physical and biological processes, in a context of economic, social, ethical and environmental constraints. | |

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| WORK EXPERIENCE |  |
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| 2020-2021 | **Independent Consultant and Municipal Engineer** |
|  | http://upload.wikimedia.org/wikipedia/commons/thumb/5/5c/Flag_of_Portugal.svg/22px-Flag_of_Portugal.svg.png Câmara Municipal de Loulé (Portugal) |
|  | To make sense of data effectively and transform it into business intelligence to better inform operational, maintenance and planning decisions. Provide guidance and advice in areas such as:   * Disclose and analyse NRW causes by processing online and historical data. * Improve capacity to monitor and account for water losses. * Detect and control leaks. |
| 2015 to 2019 | **Director of Planning and Asset Management** |
| http://upload.wikimedia.org/wikipedia/commons/thumb/5/5c/Flag_of_Portugal.svg/22px-Flag_of_Portugal.svg.png INFRAQUINTA (Portugal)  Rigorous processes to utilize data to make risk‐ informed asset renewal/replacement decisions.   * Develop and monitor the infrastructure master plan for drinking water. * Create and evaluate various alternative operating scenarios for the water distribution network. * Fine-tuning the hydraulic model. * Develop the water quality model (fine calibrated with the introduction of a tracer) * The work culminated in the award for Best Asset Rehabilitation and Renewal Strategy at the National Meeting of Water and Sanitation Management Entities (ENEG 2019). |
| 2011 to 2015 | **Independent Consultant and Municipal Engineer** |
| http://upload.wikimedia.org/wikipedia/commons/thumb/5/5c/Flag_of_Portugal.svg/22px-Flag_of_Portugal.svg.png Câmara Municipal de Loulé (Portugal) |
| To make sense of data effectively and transform it into business intelligence to better inform operational, maintenance and planning decisions. Provide guidance and advice in areas such as:   * Non-revenue water (NRW) reduction. Disclose and analyzing NRW causes by processing online and historical data for: (1) improving capacity to monitor and account for water losses; (2) detecting and controlling leaks; (3) detecting illegal connections; * Leverage multiple data sources to visualize trends on drinking-water quality and wastewater discharge monitoring and guide utilities operation; * Baseline raw water quality analyses to enable tracking of changes in raw water quality, over time and season, and advice changes required to comply with water quality standards.   coupled with informed decision making about the allocation of capital expenditures:   * Undertake technical due diligence on proposed investments and set out the rationale for the investments in the context of cost savings and output requirements; * Undertake (with the financial adviser) the development of risk allocation and payment mechanisms in Public-Private Partnerships and Performance-Based Contracts. |
| 2004 /2010 | **Regulatory Engineer** |
| http://upload.wikimedia.org/wikipedia/commons/thumb/5/5c/Flag_of_Portugal.svg/22px-Flag_of_Portugal.svg.png ERSAR - Portuguese Water and Waste Services Regulation Authority (Portugal) |
| ERSAR is in charge of regulating public water supply services, urban wastewater management services and municipal waste management services:   * Performed on-site water risk assessment audits (analysis of water quality data and operation procedures) of regulated water utilities in order to verify compliance with applicable regulations; * identify the causes of diverse water quality issues and, with the participation of the local management team, implement a cost-effective solution in order to ensure regulatory requirements; |
| * Inspired behavioural and cultural changes in data analysis, operation and investment decisions of water regulated companies. The regulated companies under her supervision have, in the period 2004 to 2009, improved on average 15% measured in terms of water quality compliance; * Appointed as the Portuguese expert for the European Expert Group on Construction Products in contact with Drinking Water (EG-CPDW); * Created technical guidelines (e.g. “Water Safety Plans”) based on a comprehensive risk management approach with the aim of improving the water data analysis and operation decisions in regulated companies. |
| http://upload.wikimedia.org/wikipedia/commons/thumb/a/ae/Flag_of_the_United_Kingdom.svg/22px-Flag_of_the_United_Kingdom.svg.png2002/2004 | **Design Engineer (**Employed on a permanent staff basis) |
| Purac Limited, an Anglian Water Company (U.K.) |
| Provided engineering input at different stages from strategy and feasibility studies through to detailed design and site supervision:   * Successfully comply with contract specifications of the project of a large Water Treatment Plant, the Barrow Water Treatment Works (client: Bristol Water), designed for 126 000 m3/d and involving an investment of £10 m (current price); * Adapted quickly to new job functions and culture. As recognition for her performance received a productivity reward. |
| 2000/2002 | **Technical Adviser to the Board of Directors** |
| http://upload.wikimedia.org/wikipedia/commons/thumb/3/38/Flag_of_Cape_Verde.svg/22px-Flag_of_Cape_Verde.svg.png Electra SA (Cape Verde) |
| Delivered the water and sanitation business plan and working with the country teams to develop program pipeline, in conformity with World Bank requirements and in accordance with the related EU standards (urban wastewater directive and water framework directive):   * Pragmatically integrated to complete different business culture and effectively led a successful team in site engineering and construction of a desalination seawater treatment plant, with energy recovery system; * Prepared terms of reference, according to FIDIC contracts standards, of bankable projects for financing by World Bank. |
| 1991/2000 | **Project Manager and Department Manager** |
| http://upload.wikimedia.org/wikipedia/commons/thumb/5/5c/Flag_of_Portugal.svg/22px-Flag_of_Portugal.svg.png Municipality of Loulé (Portugal) |
| Successfully managed the entirely Department including staff, budget and European Union financed Projects (wastewater collection and treatment):   * Managed European Union financed projects (Envireg and Cohesion funds), including project’s master plan, preparatory studies, stakeholder consultations, bid process, contractual negotiations and budget performance, of an investment of €20,000,000 (current price). All projects were concluded on time, within the requirements, and with an over budget less than 8%. |

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| PERSONAL SKILLS |  |

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| Mother tongue(s) | Portuguese | | | | |
| Other language(s) | Understanding | | Speaking | | Writing |
| Listening | Reading | Spoken interaction | Spoken production |  |
| French | High | High | Moderate | Moderate | Basic |
| English | Excellent | Excellent | Excellent | Excellent | Excellent |
| Spanish | Excellent | Excellent | Excellent | Excellent | Moderate |

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| Social skills | * Good communication skills gained through my experience of working experience with multicultural teams within an international context; * Above all, I have the maturity to get along with others, know how to manage your emotions at work, and to understand cultural diversity and related implications; * Taking part in local political affairs. |

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| Organisational skills | * Elaborated and controlled annual budget and management plans of a municipality department; * Led the assistance to contractors during on-site construction and commissioning inspection. |

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| Computer skills | * Good command of Microsoft Office™ tools and Apple® applications software; * Knowledge of SQL database applications; * R software environment for statistical computing and graphics: experience in data manipulation, calculation and in developing statistical models; * Statistical modelling; * Machine learning algorithms. |

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| ADDITIONAL INFORMATION |  |

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| Academic and training experience  Professional organisations | * Co-supervised and co-evaluated graduates’ theses for Environmental Engineering degree at the University of Algarve; * Selected as member of the jury, and occasionally selected as jury president, of various committees responsible for the selection and training of Engineers who applied for local government work; * Trained supervision and evaluated an Environmental Engineer in order to become member of the Portuguese Professional Qualifying Body for Engineers. * American Water Works Association (USA): member number 442907 * International Water Association (U.K.): member number 33823 * Portuguese Association of Engineers (Portugal): member number 25048 * American Institute of chemical Engineers (USA): member number 90107681 |
| Environmental audits | * Had been registered by Institute of Environmental Management and Assessment (IEMA) as an Associate Environmental Auditor – from October 2001 to October 2003; * Certification auditor (ISO 9001 and ISO 14001) working for SGS – Sociéte Génerale de Surveillance S.A. – International Certification Services – in 2001/2002. |

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| ANNEXES |  |

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|  | * Copies of degrees and other qualifications, including any certificates issued at the end of training courses which did not lead to a formal qualification; * Testimonial of employment. |