

# Tejas Pandya CEng MIMechE

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A committed and experienced chartered Lead Mechanical Engineer and Project Manager with a successful background of developing and guiding the design of mechanical plant and piping systems, specialising in the power, water utilities and energy sector. As an organised and pro-active lead engineer, I am skilled at project management, contractor and site supervision, delivery of technical work-scopes, managing stakeholders, risks and translating them into effective solutions. Attentive to schedule and budget management, I prioritise to balance a demanding workload and successfully meet conflicting deadlines. With excellent communication skills, I am capable of building strong working relationships internally and externally, developing interfaces and team structures.

## AREAS OF EXPERTISE

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- APM – INTRODUCTION TO PROJECT MANAGEMENT
- LEAD MECHANICAL ENGINEERING TEAM MANAGEMENT
- CONSTRUCTION DESIGN MANAGEMENT,
- PROJECT ENGINEERING
- CONTRACTOR SUPERVISION
- COMMERCIAL RISK AWARENESS AND BUDGET MANAGEMENT
- PROJECT, SCHEDULE & CHANGE MANAGEMENT
- STRATEGIC PLANNING & PROJECT EXECUTION
- MULTI-NATIONAL TEAM EXPERIENCE
- PROJECT SYSTEM INTERFACE MANAGEMENT
- STANDARDS, CODES AND REGULATIONS COMPLIANCE (UK & INTERNATIONAL)
- ENGINEERING BEST PRACTICE, HAZOP, HAZID
- CROSS-FUNCTIONAL TEAM MANAGEMENT
- ROTATING EQUIPMENT, TANKS, PIPING, HVAC LAYOUT AND MECHANICAL HANDLING, WATER PUMPING STATION, ENGINEERING DESIGN
- TEAM STRUCTURE DEVELOPMENT & MENTORING
- DESIGN OPTIMISATION
- ENVIRONMENTAL, HEALTH & SAFETY COMPLIANCE

## KEY ACHIEVEMENTS

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- Implementation of Mech. & Piping team delivery structure • Successful technical management of Mech. & Piping delivery for Preliminary Design Phase of New Nuclear Build • UK Water Utility Framework Capital Investment Project Delivery • Timely delivery of detail design and manufacture of Alkali Metal Waste Skids (steam supply, pressure vessel and boiler design, active waste handling systems for Dounreay Site Restoration Ltd) • Client Approval of Auxiliary buildings design for EDF (Hinkley Point C) Mech. Layout

## CAREER HISTORY

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### PROJECT ENGINEER/MANAGER – Thames Water Utilities Ltd

2019 - Present

- Managing and delivering a portfolio of mechanical, electrical and instrumentation projects with a value of up to £5 million per annum.
- Working with Thames Water and contractors to scope, define and cost a solution that is both cost effective and with minimal risk to the business.
- Promote a zero compromise attitude to health and safety, striving for continuous improvement at all times.
- Construction Design and Management Regulations (CDM) and H&S compliance of all projects

- Work collaboratively with delivery partners/contractors to ensure that schemes deliver on time.
- Drafting, vetting and approving pre-construction information, project plans, construction phase H&S plans (CPP) and commissioning plans.
- Overseeing the commissioning and hand over of the project to the operational client.
- Ensuring appropriate training has been completed and that completion documents are available and handed over including test certificates and constructed drawings.

**Achievements:** Developed interface management with site contractors, and capital delivery of site upgrade works.

#### **LEAD MECHANICAL & PIPING ENGINEER – Hitachi**

**2018 – 2019**

- Lead the Mechanical systems, HVAC and Piping Engineering team for delivery of the site design within the Architect Engineer for Horizon Nuclear Power, including managing the team, engineering solutions and all mechanical system interfaces, complying with all UK legal requirements and Hitachi's business case needs.
- Stakeholder management of Intelligent Customer, Turbine, Balance of Plant and Nuclear Island Managers
- Review of client functional requirements, for contract acceptance and design execution.
- Production of Client Technical Specifications and Project Design Manuals for Mech. & Piping Engineering scope
- Management of UK and overseas (USA and Japan) design teams for project delivery, codes and standards compliance.
- Control of design changes and optimisation of mechanical and piping engineering to time, cost and budget.
- Leading the integration of mechanical systems and piping engineering input between sub-contractors in international joint venture and new project delivery structure (Architect Engineer).
- Chairing of design workshops in UK and Japan for progress review of engineering in accordance with client (Horizon) processes and procedures.
- Management of inter-discipline interfaces with other Lead Engineers (Construction, Civil, Structural & Architectural, Electrical, C&I, Safety Case and Pre-Construction Safety Report)
- Identified and appropriately managed mitigation of technical and economic risks within discipline.
- Lead development of discipline work-breakdown structures and delivery execution plans

**Achievements:** Implementation of Mechanical team and delivery structure. Successful technical management of Mech. HVAC & Piping delivery for Preliminary Design Phase. Timely delivery of Client Technical Specifications and Project Design Manuals for Island Contractor engagement.

#### **PLANT LAYOUT ENGINEER/CO-ORDINATOR (UK EPR) – Jacobs (EDVANCE - EDF)**

**2016 – 2018**

- Providing technical co-ordination of layout engineering studies to UK regulations and standards between UK France and Germany.
- Layout engineering – M&E equipment, pipe routing and HVAC ducting in 3-D model with the CAD team.
- Production of technical documents, including progress reports, equipment introduction methodology for construction and mechanical installation, change impact analysis, and building maturity presentations.
- Design change configuration management and integrating maintenance requirements in the building design
- Co-ordinating CDM and constructability reviews and development of Designer's Risk Register.
- Erection sequence planning, development of manual handling and mechanical lifting strategies.

**Achievements:** EDF New Build– HPC - Stage 1 Client approval of Civil and Plant layout of Auxiliary Buildings (including piping, mechanical handling, containment systems and HVAC Layout).

### **EARLY CAREER:**

SENIOR MECHANICAL ENGINEER – AMECFW (2014-2016) | SENIOR/LEAD MECHANICAL ENGINEER – CH2MHill (2012-2014) | MECHANICAL DESIGN ENGINEER – Mott MacDonald (2010 – 2011) | PROJECT ENGINEER – AMEC (2009 – 2010) | MECHANICAL DESIGN ENGINEER – MWH UK Ltd – Water Utilities Division (2006 – 2009) | MECHANICAL DESIGN ENGINEER – Halcrow Group Ltd (2005 – 2006) | MECHANICAL CONTRACTS ENGINEER - Naston Ltd (2005)

### **EDUCATION & QUALIFICATIONS**

CEng – Chartered Engineer – MIMechE (2011) | APM – Introduction to Project Management (2009)  
2:2 BEng (Hons) – Mechanical Engineering with Management, University of Leeds (2004)