

SIN VILA

Head of R&D

Industry Experience – 22 years



Sin Vila is a mechanical engineer with a PhD in material science specialising in polymer nanocomposites. Sin has over 22 years' experience in product development covering research, design, tooling, process implementation, production, project management and quality systems.

Before joining Matrix in 2011, he held the position of Technical Director at PPT (Barcelona, Spain), manufacturing plastic components for the leading automobile brands including BMW, Audi, Ferrari, Porsche and VW. Prior to that, in 2004 he was a Project Manager at Siemens VDO Automotive (Spain/Germany), and Process Engineer in Hager Electric back in 2000.

<ul style="list-style-type: none"> ● Matrix Composites & Engineering 2020 - current 	<p>HEAD OF R&D</p> <ul style="list-style-type: none"> ● Responsible for the R&D, IP and Innovation management ● Leads and controls the research, design, testing and qualification activities of new products of existing business units as well as prospective markets. ● Leads technical feasibility, cost modelling, risk analysis and implementation of new and existing products, processes and equipment.
<ul style="list-style-type: none"> ● Matrix Composites & Engineering 2019 - 2020 	<p>HEAD OF TECHNOLOGY</p> <ul style="list-style-type: none"> ● Responsible for the Design Engineering, Process Engineering and Lab teams. ● Leads and controls the research, design, testing and qualification activities of new and existing products. ● Leads technical feasibility, risk analysis and implementation of new and existing products, processes and equipment..
<ul style="list-style-type: none"> ● Matrix Composites & Engineering 2017 – 2019 	<p>ENGINEERING MANAGER</p> <ul style="list-style-type: none"> ● Responsible for the Design Engineering Team ● Leads and controls the research, design, testing and qualification activities of new and existing products.
<ul style="list-style-type: none"> ● Matrix Composites & Engineering 2011 - 2017 	<p>ENGINEERING LEAD – THERMOPLASTICS</p> <ul style="list-style-type: none"> ● Leads and controls the research, design, testing and qualification activities of new thermoplastic products.



PPT S.A. (Spain)

2004 - 2011

- Conceives and sets-up the production processes related to all thermoplastic products, including commissioning of new equipment and tooling.

TECHNICAL DIRECTOR (BEFORE ENGINEERING MANAGER)

PPT (now Walterpack) is a leading manufacturer in the niche market of 'cosmetic plastic parts' for car interiors, exporting to Europe, USA, Brazil, Mexico and China. Key supplier to BMW, Audi and Ferrari for 'cosmetic plastic parts' with a strong reputation for innovation, quality and customer service.

- Leads Quality, Engineering and Maintenance departments.
- Engineering and project management for the product development, industrialisation, commissioning, and technical support to the customer during the product full life cycle.
- Quality: supervises the QA management team to migrate from ISO 9001 to ISO 16949.
- Maintenance: implement TPM practices in the manufacturing processes (injection moulding, painting, and assembly lines).

Siemens VDO (Spain / Germany)

2002 - 2004

PROJECT MANAGER

Siemens VDO (now Continental VDO) is a leading OEM manufacturer of control systems for the car industry.

- Project management for the development and industrialisation of new components (Speedometer Business Unit), liaising between the R&D teams in Germany and the manufacturing operations in Spain.

Hager S.A. (Spain)

2000 - 2002

PROCESS ENGINEER

Hager manufactures electrical components for domestic, commercial, and industrial applications.

- Plant engineering, process, and manufacturing improvements (injection moulding and assembly)

EDUCATION & CERTIFICATIONS

- 2014: PhD in Material Science (Hons), Universitat Politècnica de Catalunya, Barcelona
- 2000: BEng Mechanical Engineering, Queensland University of Technology, Brisbane
- 1997: DEng Mechanical Engineering, Plastics Specialization, Universitat Politècnica de Catalunya, Barcelona

