

MATTHEW SMITH

Industrial & Mechanical Designer



LinkedIn

Please click here to
be directed



Mail

terracesmithy@gmail.com



Website

Please click here to
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PROFILE

I am a qualified and highly energetic individual with a strong passion for Industrial & Mechanical design.

My desire for this work has been recognised through my university results and my association with some prominent and highly regarded industrial design programs with iconic global and local organisations.

My objective is to continue to develop my skills and connections through my work in industry. To challenge myself to become a better designer.

INDUSTRIAL DESIGN QUALIFICATIONS

Queensland University of Technology

2017 - 2021, Bachelor Design (Honours)
Major in Industrial Design
Minor in Architecture

SECONDARY EDUCATION

St Joseph's College Gregory Terrace

2012 - 2016

CAREER HIGHLIGHTS

At Wave International, I played a key role in designing mechanical and structural components at various Queensland Mine Sites (2023/2024).

Achieved an award winning design through BinBypass at the National Sustainable Building Awards (2023).

At Evolve Group, I played a key role in developing Mining, Recycling, 4x4 and Consumer Electronics to develop new and profitable success stories (2022).

Selected into the QUT BMW, 6-12 month Internship program based in Munich Germany. This was postponed because of COVID-19. (2020)

Shortlisted as a candidate for the Lexus Design Award for my 'concussion in sport' thesis project (2021).

Achieved a patent design through 'Planet Protector Packaging' for producing a winning design solution. (2019)

WORK EXPERIENCE

2023 - Current, Wave International (Full Time)

Wave International are a resource development consultant that deliver a comprehensive service offering to the mining industry spanning the entire life cycle of a project. Their experience covers both brownfield and greenfield projects from studies through to execution.

Achievements:

As an Mechanical designer within the firm, I utilised design softwares (Advance Steel, Plant 3D, Navisworks, Projectwise) to create fabrication ready designs and 2D technical drawings in a timely manner for use on various mine sites in Queensland. I developed my skills through experiences working with senior designers, engineers and construction managers.

I have successfully managed projects/tasks independently, serving as the primary point of contact with project managers and engineers. To manage projects to be within budget and timeframes.



2022 - 2023, Evolve Group (Full Time)

Evolve Group is a leading hardware accelerator and product commercialisation facility in Australia. We specialize in transforming product ideas and inventions into profitable success stories by developing low-risk, highly profitable products that are scalable.

Achievements:

As an industrial designer within the firm, I utilised design softwares (Solidworks, Keyshot, Adobe CC) to create DFM & DFA ready products in a timely manner for plastic injection molding. I developed my skills through experiences working with tool makers and injection molding experts.

I have successfully managed projects independently, serving as the primary point of contact with clients and external suppliers. Additionally, I have brought in new clients independently, working within the mining, 10c recycling, 4x4, and consumer electronics industries.

2023, Dienamics Manufacturing (Full Time)

Dienamics, established in 1997, was the first company in Brisbane to offer the complete service of Industrial Design, Toolmaking and Manufacturing under one roof.

Achievements:

As an industrial designer within the firm, I utilised design software (Solidworks, Keyshot, Adobe CC) to create DFM & DFA ready products for any client project in a timely/cost-efficient manner for plastic injection moulding.

Created a visual suite of product renders of existing and current products for the company to use on their website and social media.

2021 -2022, Design @ Greg Meyer (D@GM) (Part Time)

D@GM is a Design Consultancy that specialises in market innovations. We have two divisions in our business; Product and Building Design, which forms part of D@GM. Our markets include mining, electronic security, defence, building materials and medical products.

Achievements:

Managed the role of Graphic & Industrial Designer within the firm, where I utilise design software to create products and marketing material, from start to finish of the design process.

Achieved Design Registered and production-ready products in the security industry. Creating product renders, animations, posters, and social media content for exhibitions.

Managed and developed internal social media content and system development. To aid in project managing new clients through the design process.

OTHER PROJECTS AND KEY SKILLS USED

These projects involved combining my practical and university skills:

Willow - Compact Soil Moisture Sensor - Refined and reduced costs for a client's injection molding project, achieved an IP53 rating, and brought it to market.

Skills used: Project Management, Solidworks, Keyshot, Adobe, Prototyping, and Injection Moulding Techniques.

Pay it Forward Basket Scheme - Developed large and small capacity 10c container refund stations using recycled plastic resins and ensured they were durable and cost-effective while liaising with two clients (Containers for Change and Bin Bypass) under the same scheme.

Skills used: Project Management, Solidworks, Keyshot, Adobe, Prototyping, and Injection Moulding Techniques.

eVe - Plant Moisture Reading Pot - Personal project that required a working prototype, with quality product renders and animations.

Skills used: Solidworks, Keyshot, Adobe Illustrator, and Premiere Pro, Prototyping, Arduino.

CON-I - Sports Concussion Diagnosis Headset - A personal project that required a detailed research report with a realistic design solution.

Skills used: Solidworks, Keyshot, Adobe Illustrator, Premier Pro, Indesign, Prototyping, Qualitative and Quantitative Research.

2021, CSM Service Bodies (Casual)

Since 2002, CSM has been building storage solutions for 4x4 vehicles within recreational and trade environments. My role involved working alongside the Sales, Marketing and Design teams.

Achievements:

Developed new graphic design projects to design product information brochures, exhibition signage and laying the groundwork to help the marketing team expand the business.

I initiated the creation of a universal tray mount for CSM tray bodies, while laying the groundwork to the design the next generation service body through user and market research.

2015 - 2022, Officeworks (Part-time)

Developed exceptional knowledge in customer service standards and satisfaction. Developed skills in teamwork while guiding individuals in retail scenarios.

Achievements:

Managed the position of Chairman of StaySafe at the store, and I would direct monthly meetings and project management team members to complete monthly tasks. This role also included completing necessary safety documentation. To ensure company standards are met.

Achieved a position in the Apple Excellence Program (Apple Master Plus). Partaking in training events and hands-on workshops to learn more about Apple devices and their connected ecosystem.

I managed the Apple customer repairs section to assist customers with their Apple devices in-store or send them to an authorised repair agent. While working and replacing Apple retail demos in-store.

2021, Modinex Group (Internship)

Modinex Group is a consolidated house of brands establishing a new benchmark for modern internal / external architectural building products in Australia, and beyond.

Achievements:

Achieved a market ready suspended ceiling timber batten system that utilises local materials and manufacturing. While creating a working jig to aid in the assembly process. That's currently being manufactured, through 2 axis CNC.

Developed installation guides to aid in assembling their products and provided in-context product renders.

TECHNICAL CAPABILITIES

Adobe Creative Cloud Suite

Solidworks CC Suite

Autodesk Suite

Projectwise

Lumion

Keyshot

Blender

3D Printing

UX Design

Data Analysis

User Research

Steel Fabrication

Sheet Metal Design

Laser Cutting

Label Printing

Injection Moulding procedures

Design Process

Model Making

Graphic Design

Project Management Softwares

INTERESTS

Using my 3D printer to further my design skills in creating electronic and household products that I can use around home. Sometimes, I will post these on social media.

Attending Networking events.

I have a strong interest in Formula 1 and Lego set building.