

# Dan Cabral

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Portfolio: [www.dancabraldesign.com](http://www.dancabraldesign.com)

## Objective

To experience working in a new environment for a respected company, where I am able to apply theory to practice and develop my professional skills.

To make friends and colleagues while working efficiently and effectively as an individual or in a team.

To understand my responsibilities and duties while fully applying my knowledge and skillset to my work while demonstrating work ethic.

## Employment History

### **Design Engineer & Technical Draftsman**

February 2018 - Current

#### Triangle Waterquip

Mordialloc, Victoria

*Triangle Waterquip have been leaders in the water industry since 1981, by supplying hydraulic valves, screen filters, agricultural sprinklers, injection pumps, and the trademark Automatic Self-Cleaning Water Filters which are designed and manufactured internally. These products have a variety of applications and are used throughout the industrial, irrigation, municipal and mining sectors around the world.*

- Creating and Revising CAD Models for Analysis, Manufacture and Visual representations
- Drafting Engineering Drawings used for manufacture adhering to AS1100 standards with GD&T
- 3D Rendering photorealistic imagery and creating Technical Schematics and Infographics
- Develop and Refine Product Manuals and Technical Documentation
- Vendor Liaising with Overseas and Local Suppliers and Manufacturers
- Overseeing Marketing, Production and Business Operations
- Advertising and Promotional work in Graphic Design and Web Development
- Training staff in design and engineering fields

## **Product Design Engineer**

September 2017 - January 2018

### AMES Australasia

Doncaster, Victoria

*AMES Australasia design, manufacture and market commercial products for the leading providers of hand tools, landscaping tools, trade equipment, laundry products and garden décor products in Australia and New Zealand.*

- Collaborating with large team to design products in the 'Home, Tools and Garden sector, for iconic Australian brands; Cyclone Tools, Hills, Kelso and Westmix.
- Conducting market research for competitor analysis, benchmarking and product landscaping.
- Using Solidworks to create CAD Models for Analysis, Manufacture and Visual representations
- Drafting Technical Control Drawings used for manufacture and quality control
- Prototyping and modelmaking to test preliminary designs and mechanisms using internal workshop facilities including setting up and operating a 3D printer (FDM).
- Using Keyshot for 3D Rendering photorealistic imagery used in quotation phase, presentations and product range reviews with customers.

## **Mechanical Design Engineer**

January 2014 - August 2017

### Rotec Aerosport Pty. Ltd.

Tyabb Airfield, Victoria

*Rotec Aerosport has been manufacturing a range of quality aircraft products since 1999. Their hallmark products are the lightweight and dependable radial engines that comes in 7-cylinder and 9-cylinder configurations, as well as performance upgrades including TBI fuel systems and LCH Heads.*

- Creating and Revising CAD Models for Analysis, Manufacture and Visual representations
- Drafting Engineering Drawings used for manufacture adhering to AS1100 standards with GD&T
- Designing custom Engine Mount Frames and Oil Tanks to fit Aircraft Specifications
- 3D Rendering photorealistic imagery and creating Technical Schematics and Infographics
- Develop and Refine Product Manuals and Technical Documentation
- Vendor Liaising with Overseas and Local Suppliers and Manufacturers
- Inventory and Supply Chain Analysis, Evaluation and Development
- Overseeing Marketing, Production and Business Operations
- Advertising and Promotional work in Graphic Design and Web Development
- Training staff in design and engineering fields

## **Entertainment and Service Provider**

April 2013 - July 2017

### Village Cinemas – Century City Walk

Glen Waverley, Victoria

- Customer Service and Direction Provider
- Point of Sale Representative; Cash Handling and Product Promotions
- Preparation and Selling of Food and Beverages
- Quality Inspection and Environment Maintenance of Site Conditions
- Time Management and Scheduling
- Mentoring and Training new employees and coworkers

## **Aquatic Livestock Quarantine Worker**

December 2008 – February 2012

### Aqua Art - Quarantine Factory

Dandenong South, Victoria

- Quarantining and Caring for internationally outsourced aquatic livestock
- Filtration systems installation and maintenance
- Water Quality testing and chemical analysis
- Inspecting for diseases and ailments to later apply medicinal remedies
- Aquarium cleaning and maintenance
- General warehouse cleaning and upkeep

## **Kitchen Assistant**

October 2011 – January 2012

### La Porchetta – Restaurant

East Bentleigh, Victoria

- Meal Preparation and serving customers
- Dish Washing and general cleaning
- Restaurant and Kitchen set up and preparation

## **Aquarium Store Attendant**

June 2008 – December 2010

### **All Aquarium – Aquatic Pets & Supplies Shop**

Mulgrave, Victoria

- Setting up Aquarium displays for aesthetic promotions
- Filtration systems installation and maintenance
- Water Quality testing and chemical analysis
- Fish breeding and fry care taking
- Aquatic livestock care taking, catching and selling
- Point of Sale; Cash Handling and Negotiating
- Aquarium cleaning and maintenance

## **Education**

### *Tertiary*

### **Bachelor of Engineering (Product Design) (Honours)**

#### **Swinburne University of Technology**

2011 – 2016

Degree Results: 3.5 GPA, (Distinction Average )

#### **Major Areas of Study:**

- Product design and development methodology
- Material Science and Manufacturing Processes
- Machine component design and machine dynamics
- Product Communication and Illustration
- Sustainability Design and Life Cycle Analysis

### *Secondary*

### **Mazenod College, Mulgrave**

2005 - 2010

#### **Major Areas of Study (VCE):**

- Visual Communication and Design
- Contemporary and Historical Art
- Physics and Specialist Mathematics

ATAR Score: 87.85

# Skills and Abilities

## Communication Skills

- I have received high marks in written assignments and oral presentations throughout high school and in university.
- I have done volunteer work with an organisation called 'Rosies', which is where a group of volunteers go to Flinders Street Station every weekend for a month, to share conversations with Melbourne's less fortunate and poverty stricken while serving them hot beverages and snacks. This was a terrific experience for me as I became capable of communicating with different people of various socioeconomic levels.

## Computer Literacy

- Several years of solid experience in using Microsoft Office and Adobe Programs with both Windows and Mac computers.
- Very familiar with Photoshop and Illustrator for digital design and visualization, as well as SolidWorks for CAD modeling, engineering documentation drawings, as well as FEA and LCA Analysis.
- Very familiar with Microsoft Word, Excel, PowerPoint and Adobe InDesign for documenting, creating tables and slideshows or presentations, as well as report and essay writing.

## Creativity and Innovation

- Possessing an eye for detail and flourishing with innovative projects and environments.
- Using various creative tools and methods for projects to achieve high results.
- Winning the ' J.W Hurst Reserve Art Competition' for the best design concept produced out of all participating art classes in Victoria. This led to articles and photographs of my team appearing in newspapers, and to my high school receiving \$1000 as an award.
- Confident to find ways to change and improve concepts and ideas as well as existing products and systems.
- Sketching, ideating, conceptualizing and prototyping are some of my strengths.

## Work Ethic

- I am a dedicated, innovative, enthusiastic, quick learner and fast worker. I am not afraid to ask questions.
- I accept criticism and utilize all feedback as a vehicle for improvement.
- Work very well individually and in a team. I encourage teammates while focusing on positives to improve or eliminate the negatives. I motivate myself when working individually and strive for optimal results.

## Leadership

- I have always played an important role for group projects throughout my education. I manage my teams to bring out the best in others and myself, while always making sure every member is comfortable and happy with fair treatment and workloads.
- I assist others when they request or need it, and possess efficient time management skills, which I can apply to team and individual projects.

- I have good decision making skills, I am confident, vocal and non biased.
- I was captain of the Mazenod Senior Basketball ACC team in 2010, I am the captain of my domestic team, and have won MVP and best and fairest awards during my high schooling in the ACC basketball league.

## Achievements and Awards

- Best Design for Health and Wellbeing Award 2017 - PDE Professional Project
- Hardest Working and Most improved staff member 2015 - Rotec Aerosport
- Asian Design Leadership Scholarship - SDF Study Tour 2013
- ACC Basketball Team Captain 2010 - Mazenod College
- J.W Hurst Reserve Art Competition Winner 2009 - Local Council
- ACC Basketball Best & Fairest 2008 - Mazenod College
- ACC Basketball MVP 2007 - Mazenod College

## Interests and Hobbies

- Basketball has been my favorite sport for many years and I love the competition and playing in domestic leagues, as well as following the NBA
- Squash is one of my newer interests, which I have developed a passion for after playing with friends and family
- Art and design – drawing, painting, sketching and rendering
- Spending time with Family and Friends

## References

### **Michael Buffinton**

Head of Design - Senior Industrial Designer  
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### **Mark Strachan**

Senior Lecturer for PDE Professional Project  
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### **Nilay Dave**

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### **Christine Thong**

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