

AIDEN KATHRINER



EXPERIENCE

Gentrack Ltd (Global) – *Intermediate Lead Engineer* - July 2021 - Current

As a lead, I seamlessly integrate technical expertise with strong leadership to enhance customer satisfaction and internal operational excellence. My unwavering passion for innovation is evident in my commitment to surpassing expectations. To quantify this, I increased sprint throughput for teams I have worked with by 66%, went from Graduate to Intermediate in 2 years, and had most of my mentees promoted on an advanced timeline.

- My core values prioritise results, collaboration, and continual enhancement within cross-functional teams.
- Steered copious customer projects, crafting and executing technical strategies that significantly elevated customer growth and satisfaction showing leadership and aiding in closing and extending customer contracts.
- Guided skilled professionals, fostering a culture of collaboration and innovation
- Enhanced and developed streamlined processes, introducing automation and data-driven analytics. Resulting in 90% reduced errors and enhancing overall efficiency by 150%.
- Consistently exceeded customer expectations through data-driven insights. Resulting in repeated customer requests specifically for my involvement, reflecting our commitment to excellence.

SRO Motorsports Group – *Data Engineer/Data Technician* – January 2024 – Present

I was recommended for this role due to my proven work ethic and trustworthiness, where I'm solely responsible for the end-to-end process ensuring teams in the GT World Challenge Australia don't breach the rules.

- I manage the configuration and collection of the data from our MoTeC logging system ensuring sensors are calibrated and calculations are accurate.
- Analyse this data using i2 Pro and a highly configured workspace I made to increase efficiency and effectiveness. This is due to the tight time constraints of having to look through over 40 cars in between sessions, whilst identifying patterns or anomalies keeping our customers racing experience enjoyable and fair.
- The configured logger and worksheet have reduced collection and data analysis time by over half
- Along with the technical proficiency of what each sensor on the car measures and knowing the SRO rule book, there are interpersonal skills required to communicate with officials and the teams as I raise discrepancies and troubleshoot technical issues on their cars, configuring and resolving electrical issues.

Other Experience – *Full details can be found on my website and LinkedIn.*

- I worked at Coles for over 8 years part-time where I made my way up to being a Part-time Second in Charge of Grocery. Supporting the manager on their days on and running the department on their days off. As well as filling in as duty manager and running stores when the store manager was absent or had finished for the day.
- Whilst at university I was part of Monash Motorsport team where I contributed as a Powertrain Engineer building the team's first electric vehicle and used embedded programming for the cars ECU in C using PsoC. Further was a Business Liaison and then finally the team's only Simulation Engineer.
- I developed accurate track models for all our competitions, allowing the drivers to drive the tracks virtually before the actual event. Gaining valuable practice which proved to decrease the driver's initial lap times by 22% which was vital when they only had 2 laps to set their best time resulting in higher points for the team.
- Managed the media team and produced a large amount of the team's marketable content for our social networks, including all competition videos in 2018, more than doubling engagement and following.

SKILLS

- Problem Solving
- Collaboration
- Adaptability
- Communication
- Docker / AWS / Jenkins
- Source Control / Git
- Python
- Java / Java Script
- Linux
- DBMS / MySQL / SQL
- C / C++ / C#
- Object-oriented programming

ACTIVITIES/AWARDS/LEADERSHIP

Gentrack Recognition Awards 2022: Respect for our customers: we express our opinions — *Gentrack Ltd (Global)*

Nominated by peers, customers and upper management for demonstrating innovation, quality solutions for clients, and building trust through confident customer communication.

Infiniti Engineering Academy — *Finalist*

In 2019 reached the final 10 and almost won amongst tens of thousands of the best engineering applicants in all of Asia and Australia. Feedback from Tommaso Volpe (Managing Director at Nissan) and Andy Todd (Director of Body & Exterior Engineering, INFINITI);

"He demonstrated a good balance of both theoretical knowledge and pragmatic, hands-on engineering. In the Tangram Task, Aiden listened to the instructions very carefully and led the Production team single-handedly. Very impressive performance. Aiden was clearly concentrating on the race procedure and made impactful suggestions to the team. He clearly understood the technical aspects of the challenge and contributed greatly. I fully expect to see him doing great things on a global stage in the very near future."

EDUCATION

Monash University, Clayton, Australia — Bachelor of Software Engineering (Graduated January 2021)

Relevant Coursework:

- Implemented advanced algorithms such as; A*, Dijkstra, Bellman-Ford, Floyd-Warshall and Ford-Fulkerson algorithms, achieving perfect scores for all assessments.
- Co-created an auto-updating stock monitoring program to demonstrate and expand upon my knowledge of UML Design and the MVC architectural pattern as well as service-oriented architecture and microservices.
- Led my team in a full-year project, digitalizing the current special consideration submission procedure to demonstrate we can follow real-world agile development practices in SAFe
- Co-wrote a research paper on, 'Testing self-driving cars' in partnership with the Monash Autonomous Vehicle team. Which explored the effects of sensor defects on object detection. In which our team conducted tests using YOLO V3 and data captured from the Monash Autonomous Vehicle team.
- Developed an ASP.NET web application with Visual Studio using the MVC architectural pattern
- Completed a Full-year project on Ad Transparency in cohesion with academics from Monash University, University of San Diego, University of Amsterdam, and the University of Illinois at Chicago. Our team has developed a solution that generates unique bots that traverse the internet saving political ads as they are encountered.

PROJECTS

Some of my projects can be found on my GitHub and include;

- A mobile app that would give you estimated travel times using PTV data and compare that with weather forecast and calendar data. This project was used to learn Flutter.
- I have my own personal HomeLab where I expanded my knowledge in Proxmox, Docker Containerizations, VM's, Home Automation, networking through opnsense and more.
- Combined both my mechatronics skills and software by highly modifying a 3D Printer to obtain speed and quality of those 10 times the price. Print times were reduced by four whilst maintaining quality. Along with the Homelab, these projects were used as challenges to see if I could save money whilst expanding my toolset.
- An Instagram bot that could explore and interact with the application traversing through posts, stories, hashtags, commenting, liking, and following using Python and Selenium. This project was used as a foundation to gain knowledge in bot creation, which I later applied in the Ad Transparency project for university.

NON-RELEVANT INFORMATION

Mobile: (+61) 0466259235

Nationality: (Dual Citizen) Australia & Switzerland

University: Monash Elite Student Performer (2018-2020)