

## Monash Motorsport - the home of Australia's first student-built, fully autonomous race car

[Monash Motorsport](#) students are pushing the boundaries of automotive technology, creating Australia's first student-built driverless race car equipped to compete against the world's best Formula Student teams in the driverless category.



- *Students from Monash University's [Monash Motorsport](#) team have created Australia's first student-built, fully autonomous race car – the M19-D*
- *The M19-D displayed its capabilities for the first time in public demonstrations on Open Day at Monash's Clayton campus, driving around a racetrack fully autonomously.*
- *The M19-D showcases the latest innovations in driverless automotive technology, including complex environment perception algorithms and robust actuation hardware.*

From developing complex computer-vision algorithms, to designing robust actuation hardware, the driverless race car, the M19-D, is the result of a collaboration between some of the brightest minds across Monash University's diverse faculties.

[Monash Motorsport's](#) Chief Executive Officer, Paras Bhutiani, said the M19-D was more than three years' in the making, and is competition-ready for the Formula Student driverless competition in Germany in 2020.

[Monash Motorsport's](#) Driverless Chief Engineer, Aryaman Pandav, said it's been an exciting and rewarding experience leading the build of the M19-D, which has provided him with the skills to be job-ready when he finishes his double degree in mechatronics engineering and science at the end of 2020.

"I've been part of the [Monash Motorsport](#) team since 2017. Since joining, I've not only gained hands-on engineering experience, but also the strong leadership skills required to excel in my career and lead a team effectively," he said.

"I've also created strong industry connections through networking with Monash alumni, partners and sponsors that will best prepare me for today's workforce. Without being part of the [Monash Motorsport](#) team, this wouldn't have been possible."

The Dean of Engineering, Professor [Elizabeth Croft](#), said [Monash Motorsport](#) was a leading example of the type of internationally competitive, multidisciplinary and entrepreneurial student teams Monash University has to offer.

"Monash Motorsport students are highly capable designers and competitors, with almost two decades of experience in vehicle design innovation within a successful student-led enterprise," she said. "Student teams like Monash Motorsport offer

outstanding opportunities for our students to develop technical, employability and entrepreneurial skills on a truly international scale," she said.

"In debuting Australia's first student-built autonomous race car, our students have also proven their capability to lead innovation in advanced technologies such as artificial intelligence, computer vision and machine learning, well before they've even graduated," she continued. "We're incredibly proud of their efforts, and congratulate Monash Motorsport on this outstanding achievement."

[Monash Motorsport](#) is a student-run team comprising more than 130 active members who design, build, test and race Formula SAE cars in Australia and across the globe. Competing since 2000, Monash ranks second in the world in the internal combustion category, and broke ground recently by ranking seventh in the world with its first electric vehicle. See more at [www.monashmotorsport.com/](http://www.monashmotorsport.com/)

**Monash University is constantly ranked No. 1 in Australia** for Pharmacy and Pharmaceutical Science, Chemistry, Engineering and Technology (THE rankings by subject 2016-2019, QS World Rankings 2017-2019). Monash University offers students exceptional learning and teaching experiences and outstanding facilities. It also offers students the opportunity to develop themselves through the many community, social and career activities. For example, **the Monash Engineering Co-operative Education Program (Co-op) is designed to equip students with up-to-date, relevant industry experience through three to six month term of paid internships.**

### **Did you know? Monash College – Your excellent pathway to Monash University.**

For more than 20 years Monash College has been offering many of our most outstanding students a pathway into Monash University. Studying at Monash College is a fast track, most effective and enjoyable pathway to prepare for Monash life, providing you with skills, support and friendships that you will draw upon throughout your careers. You will enjoy the innovative learning and teaching methodology and the vibrant student community.

For further information, visit: <http://www.monashcollege.edu.au/>

**Foundation year.** The Monash University Foundation Year (MUFY) leads to the 1st year in one of Monash 10 faculties. MUFY is accepted by all Australian universities for entry to first year of a bachelor degree.

**Diplomas.** Monash is the only Go8 University offering international and domestic students courses leading to the second year at Monash University. You'll study the same subjects as first year university students and your classes will be held on campus. The only difference is the class sizes are smaller, and you'll get more support in learning how to study in Australia.

**Scholarships.** More than 200 types of scholarships are offered every year from full tuition fee scholarship. For example, Monash Engineering offers good students A\$10,000 for each year for the 4 year Bachelor of Engineering (Honours) or the 2 year Master of Professional Engineering. Visit: [monash.edu/study/scholarships/](http://monash.edu/study/scholarships/)

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