

*Australia's Leading
Simulation and Motion
System Company, with 'World
First' products and customers
in every continent*



**MOTION SYSTEMS • FLIGHT SIMULATION • DRIVING SIMULATORS
ENTERTAINMENT SIMULATORS • INDUSTRIAL SIMULATORS**

**INDUSTRIAL AUTOMATION • PROCESS CONTROL SOLUTIONS
ROBOTICS DESIGN • PRODUCT TO MARKET**

CKAS MECHATRONICS CAPABILITIES

→ About CKAS Mechatronics

Since 2003, CKAS Mechatronics is Australia's leading simulation company, with several 'World First' products on the market and customers in every continent, including NASA Johnson Space Centre USA, ADAS Australia, Fundação COPPETEC Brazil and Speck Defence Systems India. CKAS designs and manufactures High Performance Motion Systems for many simulator applications at a performance / price ratio which makes motion possible on previously price prohibitive applications. CKAS also produces High Fidelity Training Simulators for Aviation, Driving, Defence, Industrial and Entertainment applications. CKAS has won many awards in the engineering world, including several Australian Endeavour Engineering Awards for "Product of the Year Finalists". CKAS continues to innovate and grow an already impressive product range every year, further cementing its place as a World Leader in Simulation.

→ Motion System Solutions

CKAS Mechatronics specialises first and foremost in motion solution robotics. CKAS has a large "fleet" of motion systems in both the 2DOF and full motion 6DOF categories. Ranging in price from very low cost several thousand dollar units to multi hundreds of thousands of dollars, CKAS has a motion system solution for ANY application. Some applications our motion systems have been used in include Medical Research, Defence Research and Training, Flight Simulation, Driving Simulation, Tracking, Agricultural, Entertainment and Home Use.

→ Flight Training Devices

CKAS is a worldwide market leader in full motion synthetic flight training devices. The CKAS MotionSim Series training devices are some of the most sophisticated flight trainers available to any flight training academy worldwide. CKAS flight trainers feature full 6DOF motion, electric control loading, wrap around visuals, all in a completely immersive enclosed environment, with an entry price of a couple hundred thousand dollars.

→ Driver Training Devices

CKAS develops full driver training simulators, for education of domestic drivers, racing car drivers or task specific drivers (eg, Truck Driver, Bus Driver, Mining Equipment Driver, etc). These training devices are the equivalent in standard to Commercial Flight Simulators, but in the Driver Training Industry. The design intent of these simulators is to teach better driver awareness and safety skills, in industries which currently make very little use of simulation technology. CKAS applies the vast amount of knowledge and experience from aviation simulators to the driver training world.

Entertainment Simulators ←

CKAS manufactures some of the most impressive entertainment simulators available on the market today. From entry level "home" entertainment motion simulators for only several thousand dollars, all the way up to incredibly immersive full motion theme park quality "rides" and everything in between. CKAS produces Formula 1, Rally Car, GT, Fighter Jet, Commercial Jetliner and generic type entertainment simulators. CKAS produces accurate entertainment simulators as opposed to "rides", thereby increasing the realism and immersion for the occupant.

Oil & Gas, Mining and Industrial Simulators ←

CKAS Mechatronics develops custom simulators for any industry application, ranging from Oil and Gas applications, Mining Simulators and Industrial and Plant Simulators. CKAS can apply the simulation principles from other proven fields (such as aviation) to new and innovative applications in industries where it has been traditionally cost prohibitive to apply simulation. CKAS Simulators for specific tasks (such as operating a crane) or complex exercises (such as running a power plant) can all now be simulated to increase safety, and at the same time relieving the real equipment from training tasks. There are many applications in industry where traditional simulation methodologies would have proven far too costly to apply, but can now become commercial realities due to our innovation philosophy. Contact CKAS to discuss your specific simulation application, and become a world leader in your field.

Engineering Solutions ←

CKAS has in house capabilities to innovate, design and develop customer specific engineering solutions for complex problems. CKAS' engineering expertise ranges from Mechanical Engineering and CAD design, to Electrical Engineering, Software Development and Systems or Mechatronics Engineering. Our capabilities extend into many industries including Simulation, Factory Automation, Process Control, Robotics Development and Application / Design Optimisation. CKAS has extensive experience in taking a product from concept to market in highly accelerated time frames, and has the toolkits to "drop into" many customer applications to achieve high quality results quickly. Contact CKAS to discuss your specific engineering project.

"...The CKAS V7 motion system, with its excellent motion control software interface tools, has enabled us to customize our Rover simulation while minimizing development costs..."

Scott Wood, PhD
Sr. Scientist
NASA

Johnson Space Center, Houston TX



CKAS MotionSim Series Full Flight Trainer

High fidelity fully enclosed 6DOF motion synthetic flight training simulator for today's pilot training. The MotionSim Series Simulators are low cost high performance units for ALL serious training academies

**"MAKE YOUR
MOVE"...**

SPECIALISTS IN SIMULATION PRODUCTS

→ CKAS MECHATRONICS

CKAS "Thruxim" Motion Simulator for "Home Use"



"...The 9 simulator motion bases you provided for our latest arcade at the Westfield Carousel Shopping Centre, Perth WA are a raging success and our customers love the experience the CKAS motion equipment provides..."

Tom Kennedy,
Director
SimWorld Australia Pty Ltd

"..As a world first, we at ADAS were somewhat uncertain about what the final outcome of this project would be, especially since there was no worldwide precedence to base it on, but our expectations were very much exceeded with CKAS' work, over an incredibly compressed time schedule..."

Paul Butler
Executive Director
Australian Diver Accreditation Scheme
(ADAS)



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