

## TIM KENTLEY KLAY ABOUT



### Biography

Tim Kentley Klay is a creative and technical entrepreneur who looks for emerging technologies to re-imagine product experiences that create step-change benefits for people and the environment we all share.

Tim is the co-founder of Zoox, an autonomous mobility company he led for its first 4 years. In that time he built a company valued at \$3.2B, raised almost \$800M in two rounds, hired 500 people, and filed 125 patents across software, hardware and design as he architected the development of a ground-up, vertically integrated autonomous mobility ecosystem. Tim sat on U.S. Department of Transportation's Advisory Committee on Automation in Transportation and was invited to testify to the Senate Commerce Committee on autonomous mobility policy.

Tim rebuilt 'The General', a 1958 Series II SWB Land Rover from the frame up – his daily driver when in his home town of Melbourne, Australia. At age 25, he founded XYZ Studios, followed by Crayon. Both work globally in the creative arts; together their work has been recognized with well over 100 awards including 'Cream O' Crop' via Motionographer. Graduating from Camberwell Grammar School, Tim was Dux of his year in both Art and Design receiving for each Premier's Awards. He was accepted into the prestigious Swinburne University School of Design, graduating summa cum laude with Honors and recognition as 'Most Innovative Designer'.

Tim's motivation is to expand possible; to lead teams pioneering frontier technologies that sit at the intersection of art and science, that can transform for the better our communities and environment.

### Follow

Twitter @TimKentleyKlay

### Contact

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## **TIM KENTLEY KLAY COMPANIES**

*To hold an idea in your head, and then in your hand, is joy.  
My companies are the engines that make great ideas happen.*

### **Founder Zoon**

Zoon is a California based robotics company founded to define and lead the era of autonomous mobility. Operating at the intersection of design, computer science, and electro-mechanical engineering, Zoon is a multidisciplinary team working to imagine and build an advanced mobility experience that will support the future needs of urban mobility for both people and the environment.

Visit [zoon.com](http://zoon.com)

### **Founder XYZ Studios**

Taking its name from the possibilities of cartesian space, XYZ is a studio specializing in the art of commercial animation. Defined by its directors, each holds raw talent in multiple disciplines: all are hands on, all are technical, all are designers but of most importance, all are exquisite storytellers.

Visit [xyzstudios.com](http://xyzstudios.com)

### **Founder Crayon**

Crayon is a boutique, self-contained post production studio founded by directors for directors to finish their moving picture projects in an environment purpose built for privacy, focus and a gifted team.

Visit [wearecrayon.com](http://wearecrayon.com)

**TIM KENTLEY KLAY**  
**EDUCATION & ASSOCIATIONS**

**Education Secondary**

Camberwell Grammar School,  
Melbourne Australia

Dux Graphic Design  
Year 11 & 12

Dux Fine Art  
Year 11 & 12

*Premier's Award 'Art'*  
Presented By Victorian Premier Jeffrey Kennett.

*Premier's Award 'Graphic Design'*  
Presented By Victorian Premier Jeffrey Kennett.

**Education Tertiary**

Bachelor of Communication Design (Honours)  
The National School of Design, Swinburne University.

*'Most Innovative Designer'*  
Swinburne School Of Design, 3rd Year Graduate Exhibition

*'Most Outstanding Achievement In Multimedia'*  
Swinburne School Of Design 4th Year Graduate Exhibition

# TIM KENTLEY KLAY

## PATENTS

### Patents

US-2017351261-A1	Sensor-Based Object-Detection Optimization For Autonomous Vehicles
US-10543838-B2	Robotic vehicle active safety systems and methods
US-10000124-B2	Independent steering, power, torque control and transfer in vehicles
US-9878664-B2	Method for robotic vehicle communication with an external environment via acoustic beam forming
US-2019250623-A1	Internal safety systems for robotic vehicles
US-9958864-B2	Coordination of dispatching and maintaining fleet of autonomous vehicles
US-9804599-B2	Active lighting control for communicating a state of an autonomous vehicle to entities
US-9910441-B2	Adaptive autonomous vehicle planner logic
US-10334050-B2	Software application and logic to modify configuration of an autonomous vehicle
US-10248119-B2	Interactive autonomous vehicle command controller
US-10446037-B2	Software application to request and control an autonomous vehicle service
EP-3371668-A1	Teleoperation system and method for trajectory modification of autonomous vehicles
US-2018136651-A1	Teleoperation system and method for trajectory modification of autonomous vehicles
US-2019361453-A1	System of configuring active lighting to indicate directionality of an autonomous vehicle
US-9606539-B1	Autonomous vehicle fleet service and system
US-2017120902-A1	Resilient safety system for a robotic vehicle
WO-2017079349-A1	System for implementing an active safety system in an autonomous vehicle
US-2018345777-A1	Vehicle with interchangeable drive modules
EP-3568324-A1	Occupant protection system including expandable curtain and/or expandable bladder
EP-3371772-A4	Software application to request and control an autonomous vehicle service
US-10259514-B2	Drive module for robotic vehicle
US-2019227553-A1	Interactive autonomous vehicle command controller
WO-2018222375-A1	Vehicle with interchangeable drive module and drive module
US-2019387060-A1	Software application and logic to modify configuration of an autonomous vehicle
WO-2017079321-A1	Sensor-based object-detection optimization for autonomous vehicles
US-10137856-B1	Seatbelt system including occupant detector
US-10317897-B1	Wearable for autonomous vehicle interaction
US-10486485-B1	Perception based suspension control
US-10558224-B1	Shared vehicle obstacle data
US-10423934-B1	Automated vehicle diagnostics and maintenance
WO-2018132332-A8	Occupant protection system including expandable curtain and/or expandable bladder
US-10384718-B1	Vehicle parking assist
WO-2019118350-A1	Underbody charging of vehicle batteries
US-2019176637-A1	Underbody charging of vehicle batteries
US-2019176633-A1	Underbody charging of vehicle batteries
US-2019138000-A1	Redundant pose generation system
US-2019171218-A1	External control of an autonomous vehicle
US-10457179-B1	Immersive vehicle seats
US-2019385025-A1	Sensor obstruction detection and mitigation using vibration and/or heat
US-2019251376-A1	Object detection and passenger notification
US-2020064842-A1	Autonomous vehicle fleet model training and testing
US-2019092257-A1	Fail Operational Vehicle Power Supply

## TIM KENTLEY KLAY RECOGNITION

### Awards

'Cream O' Crop'  
motionographer.com

'Top 10 Production Companies Worldwide'  
Shoot Online, New York

'Animation & Broadcast Design Hotshop Of The Year'  
Creative Hotshop Awards, Sydney  
[X2 Times]

'Motion Design Of The Year'  
Boards Awards, New York  
[X2 Times]

'Animator Of The Year'  
Desktop Create Awards, Melbourne  
[X3 Times]

'Overall Aesthetic Design [Gold]'  
Cannes Lions Awards

'Video/Moving Image [Gold]'  
Cannes Lions Awards

'Best New Director Of The Year'  
Phoenix Awards, Singapore

'Music Video Of The Year'  
Urban Music Awards, Sydney

'Interactive Of The Year'  
Desktop Create Awards, Melbourne

'Commercial Of The Year [Animation]'  
Phoenix Awards, Singapore

'FWA Of The Year'  
FWA 2016

'FWA People's Choice Award'  
FWA 2016

'Animation & Illustration [Yellow Pencil]'  
D&Ad Awards

'Best Use Of Animation Or Motion Graphics'  
Webby Awards

'Interactive Film [Gold]'  
ADC Awards

'Visual Effects/Animation'  
One Show Awards

'Graphic Design For Digital/Mobile Technique'  
Clio Awards

'Best Direction'  
London International Awards

'Best Animation - Cel'  
London International Awards

'Entertainment Design [Gold]'  
Award Awards

'Best Animation'  
Phoenix Awards, Singapore

'Best Interactive'  
Create Awards, Melbourne

'Best Automotive [Silver]'  
Phoenix Awards, Singapore

'Best Charity/social Causes Commercial' [Silver]'  
Phoenix Awards, Singapore

'Best Commercial 15sec [Silver]'  
Phoenix Awards, Singapore

'Best Food/beverage Commercial'  
Phoenix Awards, Singapore

'Best Government/educational Institutions Commercial'  
Phoenix Awards, Singapore

'Best Design'  
Melbourne Advertising & Design Club Awards

'Best Editing'  
Melbourne Advertising & Design Club Awards

'Best Typography'  
Melbourne Advertising & Design Club Awards

'Best Animation'  
Melbourne Advertising & Design Club Awards

'Best Illustration'  
Melbourne Advertising & Design Club Awards

'Best Animation Traditional'  
Melbourne Advertising & Design Club Awards

'Best Post Production & Visual Effects'  
Melbourne Advertising & Design Club Awards

'Best Community Service, Broadcast'  
Young Guns Awards, Sydney

'Most Outstanding Design And Technical Skill'  
Corel Draw Inc.

# **TIM KENTLEY KLAY**

## **ENGAGEMENTS**

### **Committee Member**

*Advisory Committee on Automation in Transportation*  
U.S. Department of Transportation

### **Keynote**

President Obama White House 'Frontiers'  
Pittsburgh

Thought Leaders at Stanford University  
Stanford

Siggraph  
Los Angeles

Fortune Brainstorm  
Aspen

Google X  
Mountain View

Semi-Permanent  
Sydney

AGDA  
Melbourne

Junior  
Melbourne

### **Exhibited**

Formavision Gallery  
New York

Mecal International Short Film Festival  
Barcelona

Artery Project International Moving Art Show  
Barcelona

Huesca International Film Festival  
Barcelona

Pictoplasma Animation Festival  
Berlin

St. Kilda Film Festival  
Melbourne

### **Selected Media**

[Inside Zoox, the \\$2b self-driving car start-up led by a Melbourne man](#)  
Australian Financial Review