

## Eddie Paul

### Bio

1330 East Franklin Avenue, El Segundo CA 90245  
Office: 310.643.8515 Cel: 310.259.0542 Fax: 310.643.8044  
eddiepaul@epindustries.com

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Eddie Paul is owner and President of E.P. Industries, Inc. located in Southern California for over 35 years. E.P. Industries specializes in the conceptualizing, design, prototyping and manufacture of many technologies for the government, fire-fighting, U.S. Military, and aerospace industries and the film and television industries. In addition to R&D, Eddie is well-known for his work with movie and television studios as a Producer, director, stunt coordinator, and builder of vehicles and mechanical effects. E.P. Industries operates out of a high-tech 25,000 sq. ft. facility that includes an automotive customizing department, his shop has 15 CNC work stations, 2 CNC routers, CNC plasma-cutting, 3-D digitizing, metal fabrication and welding shop, plastics and woodworking, vacuum-forming, and state-of-the-art digital animation, digital photography, video production and editing. Eddie Paul owns his own Production Company.

#### Personal Info Eddie Paul

Born in San Francisco 1948

Eddie's Father was an inventor and traveled with the family so they seldom stayed in one place for more than six months so most of Eddie's education was self-taught and hands-on learning fabrication, welding mechanics, pneumatics, electronics, aerodynamics as well as fluid dynamics along with a host of other sciences along the way.

1965 Eddie worked at the McCulloch chain saw company in Westchester CA where he worked from assembly to Foreman within 2 months, this was after his Foreman allowed him to rearrange the assembly line to save up to one 20 minutes per saw assembly.

1972 Later Eddie learned drafting on his own and started working for a job shop (Volt in El Segundo) as a technical illustrator for companies such as Hughes, Northrop and others.

1973 designed a hang glider that would break down into a 5 foot package within five minutes without the use of tools (most are 25 feet long when folded up for transport and require a small tool box and about an hour for assembly) Eddie's glider was called the Porta-Wing and was sold mail order.

1974 He started a publication called ManFlight Magazine for the hang glider industry that was bought out three years later by a competitor.

1975 was involved in a Hang gliding accident and was hospitalized for the next year, where he wrote his first book for the modern Aircraft series of Sports Car press titled Skysurfing (a guide to hang gliding)

1976 He built the first double Rocket powered Hang glider with two liquid Propane pulse jets engines mounted in the cross control bar. It flew and was immediately dismantled for safety concerns.

1976 Spoke at Northrop Institute of Technology about the structure analyses of ultra light flying machines, Eddie was the key note speaker

1977 Eddie was hired by a film production company to design and build four gliders in three weeks for a film and they were required to fly in the film, the gliders he built were a Wright Flier, Lilienthal “bat wing” glider, a Chanute and a box glider. Eddie was also hired to teach the stuntman to fly them. It was at this point that he was introduced to his next career of stunt driving and inventing and building stunt equipment.

1994, 1996 and 1998 Eddie was invited to be the key note speaker at the Proceedings of the 46<sup>th</sup>, 47<sup>th</sup> and 48<sup>th</sup> Nation Conference on Fluid Power (NFPA) he presented his papers on High Efficiency Fluid Pumping, The Cylindrical Energy Module and A hydraulic artificial muscle, and was published.

### **Patents**

1999 filed for and received patent in 2000 (patent number 6145429) on his CEM pump invention

1999 filed for and received patent in 2001 (patent number 6273446) on a steerable trailer system for backing up.

1991 filed for and received patent in 1993 (patent number 5209190) an improvement on his pump patent.

Eddie also has to more patents, number 5883695 and 5640222 for a new method of capturing stereoscopic images for motion picture using a single sensor camera and single lenses.

He has authored 10 technical How-To books for the automotive industry as well as written hundreds of articles and stories for magazines such as Design News, eFabShopMag, Shark diver, Popular Mechanics, Hot Rod, Guns and Ammo and many more.

Eddie worked with Dr. Craig Jenson at Mission Research (now ATK) on the a few DARPA contract for the Deuterium Fluorine Laser project for the DoD making and helping on the design of some of the mechanical parts as well as adapting his CEM pump to the laser as a cooling and vacuum pump. At one time he was given a secret clearance for his work there.

Eddie also worked with Murray Mahoney at Rockwell Science center helping design and fabricates most of (about 1000 tips) the friction stir tips used during testing.

## **WORK PROFORMED IN THE FILM INDUSTRY:**

### ***MOVIES***

#### **SHARK SWARM**

- Second Unit Director and Stunt Coordinator for Hallmark Channel’s latest ocean epic. Also designed and built many full scale animatronics Great White Sharks, shark fins, and human body parts.

#### **CARS**

- Created two sets of the real life, working versions of Lightning McQueen, Tow Mater and Sally Carrera from the Disney/PIXAR movie CARS in just two months for the cars show circuit.

#### .LEATHERHEADS

- Built three replica 1918 Indian motorcycles in less than three weeks using only components that were fabricated in my shop.

#### TAXI

- Built seven body kits in two weeks converting a regular taxi into a NASCAR-style racer.

#### THE FAST AND THE FURIOUS

- Modified and customized 86 stunt and picture cars in one month. The cars were used in all of the race scenes.

#### 2FAST 2FURIOUS

- Modified and customized over 200 stunt and picture cars in two months. The cars were used in all of the main and race scenes.
- Authored and shot photos for “The Cars of the Fast and Furious, 2Fast 2Furious” published by Motorbooks International under license from Universal Studios. It has since become Motorbooks’ best selling release ever, over 70,000 sold.

#### XXX (TRIPLE X)

- Built the seven highly modified GTOs used in the film as well as designing the suspension systems for stunts. Also built two jeeps also used in the film.

#### THE MASK OF ZORRO

- Constructed two full-size horses to jump off a high bridge and land in water. These horses are fully animated with mechanical and pneumatic controls. Fabricated an animatronic horse heads and legs for stunts. Also designed and built 100 propane torches for the movie as well as special swords and whips.

#### GREASE

- Restored and customized 48 vintage cars in two weeks, including main stunt cars for race sequence. Fabricated flame-thrower exhaust pipes for custom black Mercury. I also designed and built the 1947 ford Grease Lightning.

#### E.T.

- Designed and Built the special Ford van for the E.T. rescue scene.

#### MASK

- Designed and built all motorcycles used in the film, including the 400-cubic inch 3-wheeler I rode in the film as I was doubling one of the actors. Taught all of the actors how to ride Harleys. I was hired as the Stunt Coordinator and liaison between producers and actual bikers used in the film.

#### BACK TO THE FUTURE

- Built and rigged several time traveling Delorians.

#### WILD AT HEART

- Special effects. Fabricated hands, head, and arms to be shot off.

#### AGAINST ALL ODDS

- Rigged picture cars (Porsche 911 and Ferrari 308) for stunts and high-speed driving. Designed suspension for 20-foot jumps, rebuilt cars damaged in stunt sequences overnight.

#### GONE IN 60 SECONDS (ORIGINAL)

- Driving stunts. Performed transfers: bike to car, car to bike, car to helicopter, copter to bike. Over 300 stunt crashes performed in film.

#### GONE IN 60 SECONDS II

- Stunt Coordinator / Second Unit Director. Designed, built, operated air-powered robots to drive cars for high-speed jumps and an 80mph collision.

#### NIGHTMARE ON ELM STREET V

- All major special effects and 80% of small special effects. Built process trucks, to shoot actor through windshield, designed and built 16-foot 300,000 pound air ram that turned church inside out, built large flood tank for shower shot.

#### COBRA

- Designed and built Stallone's chop-topped Mercury and four identical backups for main chase scene. Custom suspension, full 10-point roll cages, supercharged, nitrous oxide-injected 350 motors. The five vehicles were completed in two weeks.

#### INNERSPACE

- Built custom 1967 Mustang and identical four backups; rigged the Mustangs for jumps, crashes, and stunts. Designed sub-suspension for three Volvos to perform long jumps without damage.

#### Remo Williams

- Designed/built/operated 8-foot high, 4-wheeled Robot.

#### STREETS OF FIRE

- Hired real Motorcycle Gangs and was the Liaison between the gangs and the production company; choreographed and performed stunts on bikes. Designed and built all 60 bikes in film; taught actors to ride motorcycles. Built 2 custom convertible Mercury with backup as well as all the police cars.

#### ICE PIRATES

- Designed and built 60-foot battle-craft; performed all stunts involving battle craft. Also built six futuristic motorcycles and police cars.

#### CASUAL SEX

- Stunt Coordinator. Minor car stunts. Water/boat safety and some F/X rigging.

#### HEART LIKE A WHEEL

- Custom painted drag race cars. Repaired damaged race cars during filming.

#### BEST OF TIMES

- Designed and painted custom van and worked as a consultant on film.

#### MIRACLE MILE

- Performed car and motorcycle stunts, fights, and falls.

#### WALKING TALL

- Built two stunt cars

#### SOYLENT GREEN

- Designed and built two stunt cars. Rigged large truck to lose wheel and crash.

#### ALCATRAZ – THE WHOLE SHOCKING STORY

- Built replica of vintage paddy wagon.

#### THE JUNKMAN

- Stunt Coordinator. Car, truck and motorcycle flips, rollovers, jumps, high-speed chases.

#### 13 O’CLOCK

- Stunt Coordinator / Second Unit Director. Car flips, slides, explosions. Performed high-speed chases, U-turns, reverse driving in limousine.

#### CRASH AND BURN

- Stunt Coordinator / Second Unit Director. Designed wedge ramp, coordinated and performed head-on collisions (50 mph), rigged 5-ton truck to drive off a 7-story building, flip, and land on five cars. Jumped motorcycle through window of exploding house.

#### WIZARD OF SPEED AND TIME

- Designed and built suitcase that sprouts wheels, headlamps, and handlebars. Suitcase takes driver more than 40 mph for a major chase sequence. Small acting part

#### MOM AND DAD SAVE THE WORLD

- Designed, built, and drove 45-foot by 20-foot by 10-foot 30,000 pound “Death Cart.” Small acting part

#### MONKEY BUSINESS

- Built 40-foot driveable trailer for stunt sequence with monkey.

## ***TELEVISION***

National Geographic

- Cut in Half is a new show that features Eddie Paul designing a building a motorcycle that is used as a saw to cut a fire truck in half, the blade (we did not make the blade) kept breaking so we finished the job by hand cutting the truck using Plasma cutters... 32 hours of hand cutting.

#### MTV'S PARENTAL CONTROL

- Designed and built compressed air guns for food fight scene. Also provided location for taping of the segment.

#### BONES

- Transportation consultant. Provided location for investigation scene at race garage.

#### PUSHING DAISIES

- Designed and built the Dandelion Car with identical back-up.

#### TEST LAB

- Hosted shop tour for the premiere episode (now called Smash Lab). Formed ballistic gel bodies and tested a flak vest with custom-built shrapnel gun.

#### BEYOND TOMMOROW

- Another shop tour for this Australian reality show.

#### DISCOVERY CHANNEL'S SHARK WEEK

- Designed and built two mechanical turtles and six pair of false legs.

#### THE MIND OF A DEMON

- Designed and built a 14-foot long mechanical Great White Shark submarine allowing Fabien Cousteau to swim with sharks safely. The faux shark is entirely self-contained and swims using a SCUBA tank to drive the pneumatic "muscles". On camera speaking part as expert

#### DEADLINE

- In a TV show based on my shop in El Segundo, I designed and lead the build team to create a fully functional custom motocross bike for Travis Pastrana. Also customized and refurbished a 1950 Mercury that had been used in the movie "Cobra".

#### MONSTER GAMES

- Co-designed and lead the build teams for four of the seven machines designed to shatter Olympic records in one week. Also set the record for finishing early.

#### MONSTER GARAGE

- I was hired to work on Monster Garage for a week as a designer and a builder, the job was to build a shark cage on a pontoon boat for Jesse James that was aired during Shark Week, we set a record as the first team to finish a day ahead of schedule.

#### MONSTER HOUSE

- Worked as a builder and designer for a week turning an average house into an undersea adventure for Shark Week. Was the first build team to finish two days early in the show's history.

#### 1000 was to Die

- Work on 20 of their shows as an on-camera “Expert” when it came to the subject of Explosives and technical matters.

#### Power Rangers Time Force

- Built the Quantum Strata Cycle used by the Power Rangers on the Fox Kids television series. The Quantum Strata Cycle transforms from bike mode to flight (plane) mode.

#### POWER RANGERS LIGHTSPEED RESCUE

- Scenes of Saban’s direct-to-video Power Rangers release were enhanced with Circlescan 4D. (Eddie’s patent) Part of a McDonald’s Happy Meal promotion.

#### COUSTEAU SERIES SPECIALS

- During seven years with the Cousteaus, I performed underwater filming, lighting. Designed, built, operated mechanical 10-foot great white shark to swim with real sharks; the life-like shark was accepted by the great whites and became the dominant shark for three days. Operated mechanical shark from a shark-proof cage.

#### CHiPs

- Built custom vehicles for stunts.

#### DUKES OF HAZZARD (ORIGINAL TV SERIES)

- Painted one of the original “General Lee” Dodge Chargers. Painted many cars throughout the weekly series. Designed and built pipe ramps for jump scenes. Received SAG card and performed stunt driving, including many jumps and crashes.

#### SIMON AND SIMON

- Located and painted ’57 Chevy convertible used in opening sequence. Built stunt cars, stunt driving.

#### RESCUE 911

- Second unit Director and also designed, built, and operated two mechanical barracudas for a re-enactment of a barracuda attack. Shot all underwater scenes with over 100 live “angry” barracudas.

#### THE MOVIE “V”

- Built stunt vehicles, props, camera mounts. Rigged truck for flip-over.

#### RIKER

- Built 2 dozen stunt cars in one week.

#### POWERS OF MATTHEW STAR

- Rigged stunt cars, built custom vans with doubles.

#### BJ AND THE BEAR

- Built custom Chevy van with identical back-up. Used in weekly series.

#### FANTASY ISLAND

- Fabricated and painted futuristic car. One episode.

#### MORK AND MINDY

- Designed and Painted Mindy's Jeep. Used weekly and in opening sequence.

#### HARDCASTLE & MCCORMACK

- Supplied, rigged picture cars.

#### RIPTIDE

- Performed driving stunts.

### ***DOCUMENTARIES***

#### HOLLYWOOD'S BEST-KEPT SECRET

- Wrote/Produced and Directed a biography filmed in my shop in El Segundo which takes viewers behind the scenes to see everything from how we built the cars for the "Fast and Furious" franchises to the companies based on several of my inventions.

#### WORLD ODYSSEY

- Designed and built the first underwater housing for two 70mm Ultra-70 cameras. Consultant for new camera system as well as safety diver during shark filming shots.

#### IMAX

- In Search of the Great White Sharks. With Graphics Films. Shot underwater video for IMAX film. Designed and built underwater housing for 70mm W-4 camera. Designed underwater lighting system. Worked as Filming Safety Diver for four years with Great White Sharks. Built a front half of a Great White Shark for attack scenes. Also had small acting part in film.

#### DISCOVERY CHANNEL

- Great White Sharks. With John McKenny Productions. Designed and built an air-powered diver to test for diver safety around the sharks. Diver and robot operator. Designed and built a "Scuba Muffler" for silent diving with Hammerhead sharks. Shot underwater video. On camera speaking part as inventor.
- Shark Stories and Sharks – On the Brink of Extinction. Eddie Paul Productions. Second Unit Director and Cameraman. Designed, built, and operated "Gut Checker" camera to look inside stomach of shark for documentary. Also designed, built, and test lightweight plastic "Shark Suit" used by myself for documentary filming of a shark attack where I was attacked by several sharks at one time.
- 20 years of producing props, mechanical sharks and seals for the now famous Air Jaws and well as many other show produced by Discovery.

#### THE COUSTEAU SOCIETY SPECIALS

- On Valdeze. General work onboard including equipment modification and design. Worked on underwater film and video series.

- Blue Sharks. Diving, underwater lighting.
- Sea Lions. Diving, underwater lighting. Built 30 foot tripod.
- Angel Sharks. 300-foot deep diving on “air”, underwater lighting.
- Kelp Forest. Diving, underwater lighting.
- Fabricated the first swimming Great White shark for testing with other Great Whites, mine was attacked and eaten... on camera.
- Built the first Great White shark to be operated from inside the shark but a lone diver. Featured on a CBS show of the week.

#### EDDIE PAUL AUTOMOTIVE HOW-TO SERIES

- Produced and directed a series of over twenty-two automotive repair and customizing videos.

#### EASTWOOD’S INSTRUCTIONAL VIDEO SERIES BY EDDIE PAUL

- Producing and directing a new series of automotive repair and tuner customizing videos for the Eastwood Company.
- Designed and fabricated a many metal working tools for the Eastwood Company.

## ***COMMERCIALS***

#### AMERICAN EXPRESS

- Supplied 32 cars, 1 bus, and road equipment; rigged all for crashes.

#### HYUNDAI

- Built and drove ½ scale car underwater for a commercial satire of the movie “JAWS” for the 1998 Tiburon.

#### NIKE

- Supplied picture cars.

#### LEVI STRAUSS

- Built and painted special props and vehicles for “gray factory”.

#### CANADA DRY

- Performed car stunts.

#### NISSAN MOTORS

- Built large sign to flash and explode.

#### TRANSAMERICA LIFE INSURANCE

- Stunt Coordinator. Rigged King Kong to climb building, built car that was crushed by Kong's foot.

#### KODIAK BOOTS

- Performed driving stunts.

#### COORS

- Rigged cars, performed car stunts.

#### BUDWEISER

- Performed driving stunts.

#### TOYOTA

- Rigged special picture vehicles.

#### MITSUBISHI

- Designed and built rigging to drive "driverless" car 200 miles from inside trunk using a 6- inch video monitor to see with.

#### BOB'S BIG BOY

- Performed high speed driving stunts.

#### COCA-COLA

- Industrial film. Stunt Coordinator / Second unit Director. Choreographed and performed motorcycle chase, motorcycle lay-down at 70mph, transfer from bike to driverless truck at speed. Performed fight on roof of truck at 70mph, knocked off onto hood of chase car.

#### MCDONALD'S

- Choreographed near-misses in a city traffic jam. Precision driving.

## ***MUSIC VIDEOS***

#### KANYE WEST

- Custom fabrication of animated "Akira" bike for West's music video. Also provided blue screen location for dance footage.

#### COLUMBIA RECORDS

- Promotional video. Stunt Coordinator. High speed driving and crashes.

#### RANDY NEWMAN

- I Love L.A. Stunt Coordinator. Supplied bikes and bikers.

## HEART

- Never. Rigged star to jump 40 feet.

## MR. T

- Commandments. Stunt Coordinator. Performed stair-fall, fights. Thrown through window.

## TWISTED SISTER

- Leader of the Pack. Stunt Coordinator and Second Unit Director. Designed a way to safely cut off roof of station wagon speeding downhill; flipped car over cliff. Designed special harness rigging to hang girl off a 1500 foot cliff. Taught band members to ride motorcycles.

## LOVERBOY

- Dangerous. Stunt Coordinator. Taught band members to ride motorcycles.

## PHIL LYNOTT

- 19. Stunt Coordinator and Second Unit Director. Choreographed brawl in crowded bar. Precision motorcycle driving.

## ***WRITING CREDITS***

### OL' SKOOL RODZ

- Technical Editor & guest writer.

### DESIGN NEWS

- Authored the feature article for the April 2004 issue detailing the construction of the Great White Shark submarine.

### THE CARS OF THE FAST AND FURIOUS, 2FAST 2FURIOUS

- Authored and shot photos for “The Cars of the Fast and Furious, 2Fast 2Furious” published by Motorbooks International under license from Universal Studios documenting the construction of the “real” stars of the hit films. It has since become Motorbooks’ best selling release ever.

### HOW TO BUILD THE CARS OF THE FAST AND FURIOUS

- Authored and shot photos for the 25 projects including installing body kits and wings, installing high-end stereo and computer equipment, nitrous oxide kits, exhaust systems, applying graphic kits, selecting wheels and tires, installing underbody lighting kits, and more.

### SKYSURFING: A GUIDE TO HANG GLIDING

- Authored the first and definitive guide to hang gliding.

### EDDIE PAUL’S GUIDE TO CUSTOM PAINTING

- Authored and shot photos for the first of a new series of “How to” detailing how to get the perfect paint job every time.

#### EDDIE PAUL'S GUIDE TO CUSTOM BODYWORK

- Authored and shot photos for the second book in a series of "How to" books revealing many tricks of the trade used by fabricators and customizers in my shop.

#### EDDIE PAUL'S GUIDE TO BUILDING THE ULTIMATE CHOPPER

- Authored a definitive manual on motorcycle construction and customization from the ground up.

#### MOTORBOOKS INTL. SHEET METAL FABRICATION

- A technical how-to publication providing techniques and tips for both beginners and pros.

#### MONSTER GARAGE'S HOW TO FABRICATE DAMN NEAR ANYTHING

- Co-authored and shot photos for a chapter on the construction of the Great White Shark submarine.

#### HP Penguin publishing

- Currently working on two more books: Plasma cutters and How to build a Hot Rod

#### HP Publishing.

- Currently writing a book on Urban Survival, also a fiction on my first fiction novel on a large shark that was thought to be extinct.

### ***OTHER SPECIALTIES***

- Designed, Fabricated and installed two large clear plastic cylindrical shark diving tubes for Santos aquarium in Singapore.
- Building a 1926 Duesenberg from scratch as well as drawing a complete set of blueprints for the remaining 10 cars that will be built by us.
- Maintain online web show and web site titled DeadlineTV.
- Designed award-winning tools for the Eastwood Company including; the Pneumatic Planishing Hammer and the bench-top English Wheel which won the 2004 Automotive Restoration Market Organization People's Choice Award.
- Toured on the Motor Trend Car circuit as a judge.
- Toured as the main attraction the Tuning World car show in Germany signing autographs and doing interviews for TV and magazines
- Toured as the main attraction for ESSEN car show in Germany and hoisted as custom car build that was a first for the Essen show.
- Keynote speaker for AU Los Vegas (Autodesk University) on how I use their product in my Hollywood work.
- Many radio interviews such as Car and Driver Radio and Motor Trend Radio and many others
- Hosted my own radio show called Eddie Paul's Tool Talk radio as well as The Build it Better show with Eddie Paul.

- Underwater diving, filming, and equipment manufacturing.
- Deep sea and shark diving.
- Licensed firearms and weapons training.
- Pyrotechnics, explosives, electronics, optics.
- Hang-gliding / Ultra light construction and operation.
- Automobile, truck, motorcycle, and heavy machinery sourcing, modifying, and operating.
- Licensed aircraft pilot SEL.
- Boat and watercraft operation.
- Own fabrication facilities.
- Own production company
- Author of several successful books and many dozens of magazine articles.
- Secret clearance with DoD. Some work for DARPA and was awarded a Phase 1 SBIR, built 40 D-Con pumps for DoD
- 1980 - Rode a Harley-Davidson from Los Angeles to Las Vegas with no hands. 286 miles in 5 hours 10 minutes.