

# Charlie Ping

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## WORK EXPERIENCE

### SEE THREE AUSTRALIA Melbourne Australia

Director of Operations (Dec 2016 - Present)  
Vehicle Dynamics & Simulation support for Australian market (in partnership with Pratt & Miller)  
Developed tire models, aero maps, circuit surveys, and chassis models for VA SuperCar customers

### PRATT & MILLER (GM RACING) New Hudson, MI USA / Melbourne Australia

Simulation Engineer - Carlin IndyCar (Apr 2018 - May 2018)

Simulation and Vehicle Dynamics support for Carlin for 2018 Indianapolis 500  
Determined starting setup for team (their first Indy 500 event), and supported practice/race

Race Engineer - #50 Larbre Corvette C7.R - WEC GT-Am (Jun 2016 - Jul 2017)

Full responsibility for vehicle setup & pre-event simulation, starting mid-2016 season  
Qualified P1, 2017 24h of Lemans GT-Am class

Project Manager - Chevrolet IndyCar Chassis R&D (Sep 2011 - Jun 2015)

Head of Vehicle Dynamics & Simulation for Chevrolet IndyCar Program (managed 5+ engineers)  
Created and completed chassis characterization plan of DW12 Chassis, including rig testing  
(Mass/Inertia, K&C Rig, Differential Rig, Brake Dynamometer, 7 post rig, torsion testing)

Developed and led manufacturer track testing program for 2015 Chevrolet Aero Kit

Assisted in DIL research and commissioning of Chevrolet IndyCar DIL simulator (Ansible Motion)

Four consecutive IndyCar Manufacturers' Championships, Two Indianapolis 500 wins

Race Engineer - #88 Autohaus Camaro GTR - Grand Am GT (Nov 2010 - Jan 2012)

Full responsibility for vehicle setup, including gearing, suspension, and aero specification  
1 win and 4 second place finishes; 2nd in the championship (team & drivers winless in previous years)

### CONQUEST RACING Indianapolis, IN USA

Performance Engineer - #34 Mario Romancini / Bertrand Baguette (Mar 2010 - Oct 2010)

IndyCar Series. Pre-event simulation, vehicle dynamics & setup, data analysis, fuel & race strategy

### HONDA PERFORMANCE DEVELOPMENT Santa Clarita, CA / Indianapolis, IN USA

Chassis Development Engineer II (Nov 2008 - Sep 2009)

Vehicle Dynamics Engineer - Acura ALMS LMP1 program. Embedded with deFerran Motorsports  
Pre-event studies, test reports and simulation validation, working with vehicle performance engineers  
Software development, Compiled standalone ATLAS & MATLAB tools, CarSim Virtual 7 Post  
Supported Trackside and Rig testing: 6 and 7 post, CoG Mass/Inertia rig, K&C Rig

Development Trackside Engineer (Jan 2008 - Nov 2008)

Development Group - Acura ALMS P2 program. Track event summaries and reporting, simulation  
Projects with Honda Motorsports R&D Japan, including McLaren Electronics tutorials for 2009 F1

Development Associate Engineer (Jun 2006 - Jan 2008)

Performed initial studies on ALMS project, generated design targets through simulation

Race Team Associate Engineer (Jan 2005 - May 2006)

IndyCar Trackside Support. Travelled to all events and tests. Supported engine running.

## EDUCATION & CERTIFICATION

### AUBURN UNIVERSITY - Auburn, AL USA

Bachelors of Science Degree in Mechanical Engineering (Dec 2004)

Certificate in Automotive Engineering (Dec 2004)

Relevant Courses: Vehicle Dynamics, Thermodynamics, Fluid Dynamics, Engines

## OTHER EXPERIENCE

### FORMULA SAE - Auburn University

(2000-2004)

Team Captain 2003 - 5th of 140 entries, 2004 - 3rd of 140 entries

### AUTHOR: SAE Paper 2004-01-3554 Shift Time Limited Acceleration: Final Drive Ratios in FSAE

MATLAB simulation of FSAE vehicle acceleration. Presented at Motorsports Conference 2004

## SKILLS

### SOFTWARE SKILLS - ENGINEERING

Vehicle Simulation, Quasi-Static & Dynamic  
Pi/Cosworth, Motec, McLaren, Life Vehicle Data Analysis  
MATLAB & GUI Compiler standalone software  
C++, C#, VBA, Visual Basic code and compiling

### Ability Level

Expert, 9+ years  
Expert, 9+ years  
Very Good, 5+ years  
Basic