2016 CPS V&V Grand Prix
Carnegie Mellon University
May 5th, 2016
Judges

Michael A Kozuch- Intel
Jim Kapinski- Toyota
Alwyn Goodloe- NASA
Sarah Loos- Google
Akshay Rajhans- MathWorks
Aleksey Nogin- HRL Laboratories
Sebastian Scherer- Near Earth Autonomy
Mike Franusich- SprialGen
Badar Khan- Siemens
Ron Tozzie- Bosch
Students & Projects

Connie Wang
NASCAR Refueling Challenges: The Strategy behind a Pit Stop

Vincent Huang
Units of Measure for Hybrid Programs

Zihan Zhou
Flock on the March

Brandon Bohrer
Proofs in the Pilot's Seat: Toward Verified Simultaneous Maneuvers in the Next-Generation Airborne Collision Avoidance System

Anthony Ko
Safety of Satellites: Recircularization of Orbits

Pallavi Santhosh Kumar
KeYTuner: A Hybrid Guitar Tuning System
Jimit Gandhi and Astha Prasad
Safe Path Planning for an Autonomous Agent in a Hostile Environment

Adam Moran & John Mann
Orbital Mechanics of Gravitational Slingshots

Tianlong Yu
IoTSafe: A Safe & Verified Security Controller for Internet-of-Things

Rohan Meringenti and Abdel Bourai
Amazon Fulfillment Centers: Robot Interactions in a Distributed System Paradigm

Evan Cavallo
Differential Equations through Temporal Logic and Infinitesimals

Karim Elmaaroufi and Viren Bajaj
Safe Diving