



ELECTRICAL ENGINEERING
SAN JOSÉ STATE UNIVERSITY | COLLEGE OF ENGINEERING

The Semi-Annual

Student Project Symposium

Tuesday

May 3rd, 2016

11:00 - 5:00 pm

Student Union Ballroom

Automated Adaptive Directed Evolution Chamber(AADEC)*Abdulaziz Alyaseen, David Coustier, Krut Patel, David Skiles, Navjot Singh, BSEE Advisor: Morris Jones 1***Autonomous Electric Vehicle Inductive Charger (AEVIC)***Bipin Dhaliwal, Gino Bautista, Jaskirat Singh, BSEE Advisor: Keith Perry..... 2***Cognitive Exercise Tool (CET)***Ovi Chityat, Franz Dill, BSEE Advisor: David Parent 3***CubeCab Spartan Spear Driver System***Rizalino de Guzman, Anthony Nguyen, Buwen Pan, Gezhe Peng, Peter Yim, BSEE Advisor: David Parent 4***CubeCab Telemetry Team***Steven Huang, Paul Jacob, YuChang Liang, Luis Molina, BSEE Advisor: Robert Morelos-Zaragoza..... 5***Dynamic Stereo Mixing via Optical Performer Tracking***Sam North, Marc Messier, Julian Andrade, BSEE Advisor: Robert Morelos-Zaragoza 6***Electrical Stimulation of Extraocular Muscles for the Treatment of Strabismus***William Lai, Augustus Ma, Ahmad Naser, Anthony Newlin, Omid Poornasir, BSEE Advisor: Sotoudeh Hamed-Hagh..... 7***Independent Wheel Steering Optimization for Rover Operation***Colin Chen, Tai Tran, BSEE Advisor: Ping Hsu..... 8***Perovskite Solar Cells***Tom George, Westley See, BSEE Advisor: Abraham Wolcott 9***Smart Headboard***Jeff Bontilao, Matt Callaway, Ramez Salman, Rupinder Singh, Jerin Avarachan, BSEE Advisor: Sotoudeh Hamed-Hagh 10***Smart Indoor Watering***Anushka Sathyawadi, Dhanushka Giragama, Nhan Tran, Toan Phan, BSEE Advisor: Sotoudeh Hamed-Hagh 11***Smart Mirror***Adnan Dzebic, Hardeep Kalsi, BSEE Advisor: Sotoudeh Hamed-Hagh Co-Advisor: David Parent 12***Smart Sensor Communication Modules using a Mesh Network***Vincent Chao, Kelvin Huynh, Kelly Ros, Chhara Sieng, Jimmy Wong, BSEE Advisor: Robert Morelos-Zaragoza 13***Sustainable Mobility System for Silicon Valley (SMSSV) Solar Interface Team***Mitch Hatfield, Matt Holst, Mehnaz Mahbub, BSEE Advisor: Buff Furman 14***ZED Power Meter***David Nguyen, Elizabeth Lopez, ZhiTeng Yan, BSEE Advisor: Ping Hsu 15***10Gbps Full Rate PLL based CDR in 45nm CMOS***Chengyuan Zhong, MSEE Advisor: Shahab Ardalan 16***5.8GHz CMOS Gilbert Cell Mixer Design for RF Receivers***Rohit Mane, MSEE Advisor: Sotoudeh Hamed-Hagh 17***A 28Gb/s Half-rate Sampled 5-Tap Look Ahead Equalizer with Analog Front-end in 45nm Technology***Priyanka Agrawal, MSEE Advisor: Shahab Ardalan 18***A novel approach for Detection and Elimination of Black Hole Attack using Advanced DRI table in Ad hoc environment***Rahul Jain Ajay Kumar, MSEE Advisor: Chao-Li Tarnng 19***A Novel Approach for Run-Time Dynamic Reconfiguration of the UVM Environment***Shuchi Agrawal, Yashmita Thapa, MSEE Advisor: Morris Jones..... 20***Active Web based HoneyPot for Attacker Identification***Harish Kumar Krishnan Hemanth Kumar Punnium Veerappan Raja Veerappan Shanmugam FNU Suganya Kanagavel, MSEE Advisor: Chao-Li Tarnng .. 21*

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