



The Student Senate

Texas A&M University

S.R. 75-18

Texas A&M University
The Student Senate
75th Session

Robo-Revolution Resolution

“A resolution in favor of the implementation of a campus wide LMAD (Last Mile Autonomous Delivery) Platform”

Action Taken: _____

Certified By: _____

Tyler Smith
Speaker of the Senate

Date Passed: _____

Introduced By: Clayton Conn, Student

Sponsored By: Jessica Williams, Community Relations Chair, College of Engineering
Caucus

Whereas(1):

Institutions, and Near Peers; Arizona State University, Ball State University, Brandeis University, Bridgewater State University, University of California Irvine, University of California, Los Angeles, University of Houston, University of Illinois at Chicago, University of Idaho, University of Nevada, Reno, The University of Texas at Dallas, University of Tennessee, Embry-Riddle Aeronautical University, George Mason University, James Madison University, Oregon State University, OSU Cascades, Purdue University, South Dakota State University, University of Tulsa, University of Utah - North, University of Utah - South, Missouri University of Science and Technology, Missouri State University, Northern Arizona University, North Carolina A&T State University, have instituted an LMAD platform for students. And;

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Whereas(2):

The University Of Northern Arizona published its study “Evaluation of Sidewalk Autonomous Delivery Robot Interactions with Pedestrians and Bicyclists”¹ and found that zero incidences of pedestrian/vehicle collisions occurred resulting in an injury (students bumping into robots considered a collision), and zero incidences of robot/cyclist collision from data collected at 10 different spots being monitored on campus for 5 days between the hours of 9 AM to 6 PM during the fall semester in the months of September and October, and;

Whereas(3):

Within that same biconditional study, its secondary study revealed that 75.86% of students utilized the on campus delivery platform, 59.19 % of students used the service frequently, 88.12% of pedestrians were comfortable with sharing their pathways with the robots, and within the study the only interactions recorded between pedestrians and platforms (robots) occurred as general avoidances²³, and;

Whereas(4):

Texas A&M University has affirmed its commitment to the advancement, adoption, and implementation of evolutionary and cutting-edge technology as a means of supporting the university's mission of providing the most excellent and valuable services and solutions to its students, faculty, and staff, and;

Whereas(5):

Despite the potential benefits of LMADs, concerns over safety and security have led the university to take a cautious approach towards their adoption, and;

Whereas(6):

The objections raised about the deployment of LMADs on campus are valid. However, research on campuses that have already implemented LMADs has shown that these concerns are minimal. LMADs have been proven to be highly safe and are designed in a manner such that their safety improves over time as they learn and adapt to their surroundings. Studies have also shown that LMADs can safely operate in shared spaces with pedestrians and bicyclists. Moreover, students

¹ Evaluation of Sidewalk Autonomous Delivery Robot Interactions with Pedestrians and Bicyclists - Pg. 17 - https://www.metrans.org/assets/research/psr_finalreport_21-16.pdf

² “General avoidance” is defined as side stepping, swerving, moving over, actions students normally take to accommodate their fellow students

³ Table 6. Descriptive statistics of PAR-D survey responses regarding SADR - Pg. 35-36 - https://www.metrans.org/assets/research/psr_finalreport_21-16.pdf



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want these platforms on campus, as the implementation of LMADs has enhanced the overall experience on campuses across America for students, faculty, and staff.

Whereas(7):

The 75th Session of the Student Senate recognizes the importance of staying at the forefront of technological capability as a means of not only maintaining the valuable image of supporting students through familiar and exciting technologies and experiences but to improve the campus ResLife experience, increase efficiency and productivity, and support the university's goals of excellence and progress, and;

Therefore Let it be Resolved(1):

That the 75th Session of the Student Senate expresses support for LMAD technology, and asks the university to redouble its investigation of options in light of safety advances and success in other locations, in the . The 75th Session of the Student Senate requests that the university direct Aggie Dining Services to enter into partnerships with vendors to implement LMAD technology as soon as possible. The 75th Session of the Student Senate believes that the implementation of LMADs will have a positive impact on the student experience, increase efficiency, and support the university's goals of excellence and progress, and;

Let it be Further Resolved(2):

The 75th Session of the Student Senate recognizes the opportunity to, and calls upon the university to implement a Last Mile Autonomous Delivery (LMAD) solution on campus that uniquely reflects the university's culture and spirit. The 75th Session of the Student Senate requests that the university seek a solution that is consistent with the university's character, unique to Aggieland compared to other universities, and consistent with student expectations of excellence and integrity. The 75th Session of the Student Senate encourages the university to explore the possibility of adapting/creating its own intellectual property and brand upon the deployment of LMADs, and also to explore the potential of using LMADs to revolutionize the way that dining facilities and campus mail services conduct their business. We must do this the Aggie Way, for there is no other way. and;

Let it be Further Resolved(3):

A copy of this resolution be sent to:

Greg Hartman, Senior Vice President & Chief Operations Officer

Andrew Acker, Vice President for University Advancement

Shane Hinckley, Vice President of Brand and Business Development

David Riddle, Director Of Dining Services, Aggie Dining, Compass-USA

Brittany Coker, District Marketing Director, Aggie Dining, Compass-USA

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The Battalion