



The Effectiveness of Move It Transportation Among Aerospace Engineering Students

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Abstract

The researchers evaluate the efficiency of Move It, a motorcycle transportation service, among Aerospace Engineering (AE) students at Indiana Aerospace University located in Lapu-Lapu City. Reliable transport is essential for AE students due to their demanding academic schedules, where punctuality and time management are critical. The researchers explore the effects of Move It on students' everyday travel experiences, emphasizing time efficiency, affordability, safety, accessibility, and overall contentment. A quantitative approach was employed to collect data from 100 Aerospace Engineering (AE) students via online Google Form surveys. The result aims to determine whether the service addresses the transportation issues that students encounter, enhances their academic schedules, and supports their overall well-being. Students reported that using Move It helped them arrive on time for classes and reduced the stress associated with daily commuting. Many respondents found the service to be reliable and easy to access, especially during rush hour. Several students expressed satisfaction with the overall safety provided, including the professionalism of drivers and the consistent use of safety gear. Affordability appears as another favorable feature, with the majority of students indicating that the costs were within their financial means. However, some students encountered issues such as difficulty finding drivers during peak hours and fares that were too expensive for their budget. The result indicates that Move It significantly enhances students' daily commuting habits, allowing for improved time management and increased academic concentration.

Keywords: *move it, transportation, aerospace engineering students*

Introduction

Transportation is not merely a means of travel; it also shapes and greatly influences one's daily life. Students frequently travel from different regions within their own countries and even across countries, especially in Europe, to pursue high-quality education. In those countries, students benefit from efficient and reliable transportation systems, such as subways, buses, and cycling lanes, which support and help improve punctuality and comfort in their daily commute. Additionally, transportation challenges are also experienced in these countries, such as urban traffic congestion and infrastructure strain. Meanwhile, countries like the Philippines face more specific and pressing issues. These include heavy traffic congestion and limited public transportation options, which hinder students' timely access to schools. Specifically in Lapu-Lapu City, where Indiana Aerospace University is located, students often rely on motorcycles, jeepneys, and other forms of local transportation to reach their destinations. Students' right to education and access to schooling are significantly influenced by transportation (Abdulkadir and Temitope Anuoluwa, 2025), and efficient systems help reduce stress, support effective time management, and maintain overall well-being.

However, inadequate transportation, especially during peak hours, can cause delays and missed classes, which would add pressure to students' academic experiences, emphasizing that transportation remains important in determining access to these schools (Cordes et al., 2019).

Transportation is one of the many struggles that students in the academic sector encounter in getting to school on time. In response to these daily commuting challenges, services like Move It have gained popularity. Move It is a motorcycle-hailing transportation service that can be conveniently booked through a mobile application, offering a quicker way to navigate congested roads. For students, attending their classes on time may be challenging, especially for those in morning classes, as they must rise very early to make it on time (Yeo et al., 2023). To understand Move It's impact on student commuters, several theoretical frameworks provide a basis for

analysis. First, the Smart Mobility Framework emphasizes the use of digital technologies and real-time data integration, which can improve urban transportation efficiency (Shaheen et al., 2022), supporting the idea that Move It helps students reduce travel time and arrive more reliably. Additionally, the Affordability and Accessibility Framework highlights that while affordable transport options may be available, they can often lead to other stresses, such as longer journey times, unsafe conditions, and discomfort during travel (Lucas et al., 2016). The framework emphasizes the importance of cost-effective mobility, particularly for economically constrained groups such as students. Booking easily, having flexible routes, and saving time are some of the reasons why people, especially commuters, choose to use services like Move It. This aligns with the Unified Theory of Acceptance and Use of Technology 2 (UTAUT2), which emphasizes technology acceptance based on overall convenience, explaining how factors such as ease of use, effort expectancy, and facilitating conditions influence users' willingness to adopt and continue using a technology (Marikyan & Papagiannidis, 2023). Lastly, the Expectation-Confirmation Theory emphasizes the significance of user satisfaction in maintaining service usage, contingent upon whether the service meets or exceeds their expectations (Shukla et al., 2023). Together, these frameworks support the analysis that Move It offers, resulting in greater satisfaction with the commuting experience among students.

Despite the importance of transportation for student success, few to no published studies have explored the effectiveness of Move It within university settings. Aerospace Engineering (AE) students often face tight schedules and academic pressure, making reliable transport essential. Their workload includes early classes and hands-on projects, such as model rockets, CanSat, and RC planes, which require dependable commuting options. While jeepneys, tricycles, and private vehicles are common, Move It may offer a more convenient and punctual alternative. However, its impact on students' academic performance and daily commute remains unclear. This study aims to assess Move It's effectiveness, particularly in terms of punctuality, accessibility, time and cost effectiveness, safety, and convenience. The findings may provide meaningful insights that can benefit both the university and transportation service providers.

This study aims to determine the effectiveness of using Move It transportation among Aerospace Engineering (AE) students at Indiana Aerospace University. It is significant because AE students have a heavy workload and tight schedules that require reliable transport. The demands of students in this field include punctuality, affordability, accessibility, convenience, and the like. Problems encountered by students should be identified to address the challenges that may influence their attitude and behavior towards fulfilling certain responsibilities in school (Lucky et al., 2015). With this in mind, Move It shows potential in meeting these student demands. By understanding and analyzing the effectiveness of Move It, students' daily routines could be improved by reducing concerns about time, location, and cost. This highlights the role of reliable transportation in supporting academic success and well-being.

The objective of this study is to investigate how Aerospace Engineering (AE) students at Indiana Aerospace University manage their daily transportation to school. It focuses on how Move It affects their time, energy, and class attendance. The goal is to assess if the transportation options are reliable, comfortable, and meet their everyday needs. To better understand their experience, student feedback will be gathered regarding the problems they face and the improvements they would like to see. As transportation options grow, Motorcycle Taxi Hailing Services (MTHS) has reshaped traditional modes of transportation. The evolving landscape of MTHS has brought a significant shift in the transportation sector, particularly amid the country's extreme traffic congestion (Manaois et al., 2024). The study's findings could be of help to Move It to enhance its services for users.

The researchers are well-equipped to conduct this study, as they are Aerospace Engineering (AE) students who also understand the challenges. The reliability of the researchers is reflected in their systematic approach to data collection, careful analysis, and commitment to presenting unbiased and accurate results. Additionally, the researchers aim to determine and assess the impact of transportation services on student performance, attendance, and overall productivity. This research paper, titled "The Effectiveness of Move It Transportation Among Aerospace Engineering Students" explores how useful and reliable the Move It transport service is for students. The study highlights the increasing demand for efficient transportation options among college students, particularly those with demanding schedules. It explains that Move It is a transportation service popular among students for getting to and from school or other locations conveniently. Many rely on Move It due to long travel distances, lack of personal vehicles, and time constraints. Efficient transport options, such as Move It, have been shown to impact punctuality, stress, and academic performance (Shaaban & Reda, 2021). The study aims to collect feedback from students to determine if Move It truly makes a positive difference in their daily academic routines.

Research Question/ Objectives

The purpose of this study was to evaluate the effectiveness of Move It Transportation among Aerospace Engineering Students of Indiana Aerospace University for A.Y. 2024-2025. This study sought to assess the following:

1. Assess Move It's efficiency in daily commuting demands and mobile application accessibility.
2. Investigate the time and cost effectiveness of using Move It as a primary mode of transportation.
3. Assess the overall convenience and user satisfaction with Move It transportation, especially its accessibility, safety, and comfort of the user.
4. Rank the problems encountered by the Aerospace Engineering students.

Methodology

Research Design

Using a quantitative research method, this study evaluates Move It's effectiveness as a student transportation option. Data were collected

through a structured online survey questionnaire administered via Google Forms, which included closed-ended questions. The survey focuses on Move It's efficiency, time and cost effectiveness, overall convenience, and student satisfaction. Purposive sampling targets AE students at Indiana Aerospace University. This ensures that the data gathered closely aligns with the study's objectives. Descriptive analysis, which summarizes and organizes the data to identify recurring patterns and trends, was used to examine the collected responses. Researchers can clearly display consumers' overall experiences in this way, as tables and graphs were used as visual aids to enhance the impact and clarity of the results. This methodology offers a perceptive, fact-based view of how students perceive Move It's convenience and satisfaction.

Participants/Respondents

Purposive sampling was used to intentionally select respondents who were most relevant to the focus of the study. The total population of Aerospace Engineering (AE) students was approximately 125, with 79 from the first year and 46 from the second year of A.Y. 2024–2025. A total of 100 AE students participated as respondents in this study. Most students had a difficult time accessing reliable transportation. The study focused on these students' experiences with the Move It transportation. It evaluated the time effectiveness, affordability, and reliability of the service. Additionally, it focused on numbers, such as how long it took them to get to school, how often they were late, and how frequently they changed their schedule. Understanding their needs and concerns helped improve the research and service of the Move It transportation. Lastly, their answers helped to determine if the transportation was suitable for new engineering students.

Instrument

The research was gathered through an online survey questionnaire conducted among Aerospace Engineering (AE) students at Indiana Aerospace University in A.Y. 2024–2025. Google Forms were distributed through Messenger to Aerospace Engineering (AE) students. A total of 100 students served as the respondents of this study. The survey employed a four-point Likert scale, ranging from 4 (strongly agree) to 1 (strongly disagree), and included a combination of multiple-choice, Likert scale, and closed-ended questions. The study was conducted in accordance with ethical guidelines, and participants were informed about their rights and the confidentiality of their information.

Data Analysis

The researchers used basic math to understand the answers from the students. Using a four-point Likert scale, the survey's questions had four response options: 1 – strongly disagree, 2 – disagree, 3 – agree, and 4 – strongly agree. The researchers added all the scores and calculated the average for each question. This revealed what most students thought about Move It, including whether it saved time, was affordable, and whether it was easy to use, particularly in terms of its frequency, grade, and average mean. The results were presented in charts and graphs to make them simple to understand. After that, the researchers summarized and analyzed the findings by determining the weighted mean and the average. This method helped the researchers understand what students thought about the service.

Ethical Considerations

All participants in this study received a clear explanation of the study's purpose, procedures, and potential risks prior to their participation. Participation was completely voluntary, and students could withdraw at any time without consequences. Informed consent was obtained from each participant prior to data collection. Personal and academic information was kept confidential, and only the researchers had access to the anonymized data. Academic records were reviewed only with the students' permission, and their identities were not disclosed in the reports and findings. The researchers minimized any potential harm to the participants, including physical, emotional, or psychological stress, by using a survey questionnaire. Participants were also allowed to review the information that they had provided to maintain control over their contributions. Lastly, the study was conducted with integrity, fairness, and respect, and findings were reported accurately and responsibly.

Results and Discussion

Move It Efficiency

Table 1 presents the perceptions of Aerospace Engineering students regarding Move It efficiency.

Table 1. *Move It Efficiency*

<i>Indicators</i>	<i>Weighted Mean</i>	<i>Description</i>
1. I find Move It's mobile application easy to navigate.	3.13	Agree
2. Move It is a suitable transportation option for Aerospace Engineering students like me because it helps me get to class on time.	2.98	Agree
3. Move It is always available as a transportation option for students.	2.97	Agree
4. I find Move It easy to access from any location.	2.16	Agree
5. I regularly use Move It as my mode of transportation.	2.91	Agree
Average Weighted Mean	2.99	Agree

Legend: 4.21-5.00 = Strongly Agree, 3.41-4.20 = Agree, 2.61-3.40 = Neutral, 1.81-2.60 = Disagree, 1.00-1.80 = Strongly Disagree

According to the Smart Mobility Framework (Shaheen et al., 2022), it emphasizes the use of digital technologies and real-time data

integration to improve urban transportation efficiency. Transportation plays an essential role in ensuring that students arrive on time and attend their classes regularly. The availability, usability, and accessibility of transportation options significantly influence students' academic routines. "Move It" is a mobile application designed to provide reliable and student-friendly transportation services.

Time and Cost Effectiveness

According to the Affordability and Accessibility Framework (Lucas et al., 2016), it highlights the need for time- and cost-effective mobility, especially for economically constrained groups, such as students. Time and cost effectiveness refer to the extent to which Move It helps users efficiently use their time and save money, and the degree to which Move It provides a budget-friendly value for students. These factors are essential because they impact the daily routines, schedules, and budgets of users.

Table 2 presents the perception of AE students in terms of time and cost effectiveness of Move It transportation.

Table 2. *Time and Cost Effectiveness*

<i>Indicators</i>	<i>Weighted Mean</i>	<i>Description</i>
1. Move It helps reduce my overall travel time to school.	3.04	Agree
2. Overall, the time and money I save using Move It are worth it.	3.02	Agree
3. I consider Move It to be affordable for my student budget.	3.01	Agree
4. I experience less waiting time using Move It.	2.84	Agree
5. Move It helps me cut down my daily transportation costs.	2.8	Agree
Average Weighted Mean	2.94	Agree

Legend: 4.21-5.00 = Strongly Agree, 3.41-4.20 = Agree, 2.61-3.40 = Neutral, 1.81-2.60 = Disagree, 1.00-1.80 = Strongly Disagree

Overall Convenience of Move It

According to the Unified Theory of Acceptance and Use of Technology 2 (UTAUT2), technology acceptance is based on overall convenience, in terms of ease of use, effort expectancy, and facilitating conditions that influence users' willingness to adopt and continue using a technology (Marikyan & Papagiannidis, 2023). Booking easily, having flexible routes, and saving time are some of the reasons why commuters choose services like Move It. In connection with this study, the term 'overall experience' refers to the students' experience using Move It.

Table 3 presents the perception of Aerospace Engineering students regarding the overall convenience of using Move It.

Table 3. *Overall Convenience of Move It*

<i>Indicators</i>	<i>Weighted Mean</i>	<i>Description</i>
1. I feel safe when using Move It as my transportation because the rides are monitored and trackable.	3.20	Agree
2. I am satisfied with Move It's service.	3.07	Agree
3. I feel comfortable while using Move It because the rides are smooth and hassle-free.	3.00	Agree
4. Move It drivers are courteous and professional.	3.00	Agree
5. The motorcycles used are clean and well-maintained.	2.93	Agree
Average Weighted Mean	3.04	Agree

Legend: 4.21-5.00 = Strongly Agree, 3.41-4.20 = Agree, 2.61-3.40 = Neutral, 1.81-2.60 = Disagree, 1.00-1.80 = Strongly Disagree

Problems Encountered

The problems encountered by Aerospace Engineering (AE) students in using Move It include driver unavailability during rush hours, delays, high fares, poor vehicle conditions, limited service, long travel times, safety risks, booking issues, and unprofessional drivers.

Table 4 presents the problems that Aerospace Engineering students face when using Move It transportation.

Table 4. *Problems Encountered*

<i>Indicators</i>	<i>Frequency</i>	<i>Rank</i>
It is difficult to find a Move It driver during rush hours.	62	1
I have experienced delays in pick-up time using Move It.	58	2
Move It fares are sometimes too expensive for my budget.	45	3
Move It vehicles are sometimes not clean or well-maintained.	32	4
Move It is not always available in my area when I need it.	29	5
The travel time using Move It is sometimes longer than expected.	25	6
I have experienced safety concerns like aggressive and reckless driving behavior while using Move It.	22	7.5
I have faced booking or communication issues when using Move It.	22	7.5
Using Move It sometimes causes me to arrive late to class.	18	9
I have encountered rude or unprofessional drivers with Move It.	17	10

The ranking of the problems encountered in the use of Move It transportation among Aerospace Engineering (AE) students reveals several challenges. The top five problems faced include difficulty finding drivers during rush hours, delays in pick-up time, expensive fares, unclean or poorly maintained vehicles, and longer travel times.

The most reported problem, with a frequency of 62, is difficulty finding drivers during rush hours. Students struggle to book rides, especially in the morning and afternoon when demand is high, as there are only a limited number of riders available in the location.

The second most common problem encountered, with a frequency of 58, is delays in pickup time when using the Move It service. Sometimes, the rider takes too long to arrive, even after booking, which makes students late for class. The app does not provide an accurate estimated time of arrival, especially during peak hours where traffic is inevitable in Lapu-Lapu.

The third highest problem, with a frequency of 45, is that Move It fares are sometimes too expensive for the student budget. Frequent use can quickly add up the costs for students.

The fourth highest problem, with a frequency of 32, is that Move It vehicles are sometimes not clean or well-maintained. Some students feel uncomfortable or unsafe when using such vehicles that are not in good condition.

The fifth highest problem, with a frequency of 29, is the unavailability of Move It services in certain areas where students need them. There are instances where drivers decline passenger bookings for short distances or if the area is busy.

Conclusion

The findings of this study reveal that Aerospace Engineering (AE) students, both first-year and second-year students, recognize the effectiveness of Move It transportation across its three main aspects: efficiency, time and cost-effectiveness, and overall convenience. Their responses show that students prefer transportation services that are accessible, affordable, reliable, and supportive of their daily academic routines. These results highlight that Move It has a significant impact on enhancing students' mobility, enabling them to manage their time and resources more effectively while maintaining a convenient commuting experience.

Despite its strengths, several challenges remain in the use of Move It. To address driver unavailability during rush hours, the company should encourage more drivers to go online at peak times through incentives or additional pay. To reduce delays, the app's accuracy in estimated arrival times needs to be improved, and drivers should be trained to respond more promptly. Providing student discounts or ride promos can help ease financial burdens, while ensuring that motorcycles and helmets are consistently clean and well-maintained will improve safety and comfort. Lastly, Move It should increase driver allocation in underserved areas to make the service more consistently available to students.

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