

Event Name	Talk on Sustainable Mobility Solution
Date	28 th September 2018
Venue	DB-III Seminar Hall
Focus of the event	Sustainable Mobility Solution
Organizing Body	Department of Mechanical Engineering, MEA, ASME
Resource Person	Mr. Jacob Thekkekara
Audience	B.Tech and M.Tech students of ME Department

REPORT

Talk on Sustainable Mobility Solution

On 28th September, 2018, the Department of Mechanical Engineering of SJCET, Palai in association with American Society of Mechanical Engineers (ASME) and Mechanical Engineering Association (MEA) of SJCET Palai organized a talk on sustainable mobility solution. The event was organized at DBIII Seminar Hall during 11.00AM to 1.00PM.

The resource person was Mr. Jacob Thekkekara, an alumnus of SJCET Mechanical Engineering Department (2002-2006 batch). Mr. Jacob is the CTO and co-founder of Pi Beam Labs Pvt. Ltd, a Chennai-based start-up, that develops electric vehicles and charging solutions. He was formerly working with Mahindra and pursued his masters at IIT, Chennai.

The talk focused on the challenges and opportunities in the field of sustainable mobility, which is the provision of transportation services that meet the needs of the present without compromising the ability of future generations to meet their own needs. Jacob shared his insights and experiences on developing innovative and affordable electric vehicles, such as the Pi-Cycle, a pedal-assisted electric bicycle, and the Pi-Cargo, a three-wheeled electric cargo vehicle. He also discussed the various aspects of designing, manufacturing, testing, and marketing electric vehicles, as well as the regulatory and policy issues involved in promoting e-mobility in India.

The talk was attended by students and faculty members of the Mechanical Engineering Department, as well as other interested participants from other departments of the College. The talk was followed by an interactive session, where Mr. Jacob answered the queries and doubts of the audience. Dr. Binoy Baby presented a memento to the resource person.



Event Name	Talk on Application Knowledge & Career Opportunities in Steam Engineering
Date	22 nd October 2018
Venue	DB-III Seminar Hall
Focus of the event	Application Knowledge & Career Opportunities in Steam Engineering
Organizing Body	Department of Mechanical Engineering, MEA, ASME
Resource Person	Mr. Dileep Cherian
Audience	B.Tech and M.Tech students of ME Department

REPORT

Talk on Application Knowledge & Career Opportunities in Steam Engineering

On 22nd October, 2018, the Department of Mechanical Engineering of SJCET, Palai in association with American Society of Mechanical Engineers (ASME) and Mechanical Engineering Association (MEA) of SJCET Palai organized a talk on ‘Application Knowledge & Career Opportunities in Steam Engineering’. The event was organized at DBIII Seminar Hall during 3.00PM to 4.30PM.

The resource person was Mr. Dileep Cherian, an alumnus of SJCET Mechanical Engineering Department (2011-2013 AMPM M.Tech.). Mr. Dileep Cherian is a Senior Manager at Forbes Marshall Pvt. Ltd, a leading company in steam engineering and control instrumentation. He was formerly associated with academics for a few years, after which he returned to industry.

The talk aimed to provide an overview of the principles and applications of steam engineering, as well as the career opportunities and challenges in this field¹. Dileep Cherian shared his expertise and experience on various topics related to steam engineering, such as steam generation, distribution, utilization, condensate recovery, energy efficiency, and

safety. He also demonstrated some of the products and solutions offered by Forbes Marshall, such as steam traps, pressure reducing valves, flow meters, and boilers.

The talk was attended by students and faculty members of the Mechanical Engineering Department, as well as other interested participants from other departments of the College. The talk was followed by an interactive session, where Mr. Dileep answered the queries and doubts of the audience. Dr. Lijo Paul presented a memento to the resource person.



Event Name	Talk on Internship at TU Delft Netherlands and experience at M S Swaminathan Research Foundation
Date	7 th August 2019
Venue	Main Block Seminar Hall
Organizing Body	Department of Mechanical Engineering, MEA
Resource Person	Mr. Akhil Francis
Audience	B.Tech and M.Tech students of ME Department



Alumni Experience Sharing Report

Event: Alumni Experience Sharing by Akhil Francis

Date: 7th August 2019

Alumnus: Akhil Francis

Alma Mater: SJCET Palai

Department: Mechanical Engineering

Batch: 2015-2019

Current Affiliation: Intern at TU Delft, Netherlands

Topic: Experience at M S Swaminathan Research Foundation on Carbon Neutrality

Introduction:

On the 7th of August 2019, the SJCET Palai Alumni Association organized an enlightening event where Akhil Francis, an esteemed alumnus, shared his experiences regarding his work on carbon neutrality at the M S Swaminathan Research Foundation. Akhil, who graduated in Mechanical Engineering in the 2015-2019 batch, currently serves as an intern at TU Delft in the Netherlands. His journey and insights into sustainable practices were the focal point of the discussion.

Akhil's Journey:

Akhil Francis began his presentation by providing a brief overview of his academic and professional journey since graduating from SJCET Palai. He shared that his passion for sustainable engineering led him to the M S Swaminathan Research Foundation, where he had the opportunity to work on pioneering projects aimed at achieving carbon neutrality.

Work at M S Swaminathan Research Foundation:

Akhil described his experiences and contributions at the foundation, emphasizing the following key points:

1. **Carbon Footprint Assessment:** Akhil was involved in conducting comprehensive carbon footprint assessments for various projects and processes. He explained how this involved data collection, analysis, and the use of advanced tools to quantify and reduce carbon emissions.
2. **Renewable Energy Integration:** He discussed his work in integrating renewable energy sources into existing infrastructure to reduce the reliance on fossil fuels. Akhil elaborated on the challenges and innovations in this field.
3. **Community Engagement:** Akhil highlighted the importance of community engagement in carbon neutrality efforts. He described initiatives the foundation took to involve local communities in sustainable practices, emphasizing the role of education and awareness.

4. **Research and Development:** Akhil shared insights into the research and development projects he was a part of, including the development of sustainable building materials and efficient energy systems.

Challenges Faced:

During his talk, Akhil candidly discussed the challenges he encountered while working on carbon neutrality initiatives. He noted that issues such as resistance to change, funding constraints, and the need for policy support were significant hurdles in achieving carbon neutrality goals.

Key Takeaways:

Akhil concluded his presentation by summarizing the key takeaways from his experience:

1. **Sustainability is a Collective Effort:** Achieving carbon neutrality requires the involvement of individuals, communities, and organizations. It's a collective effort.
2. **Innovation is Vital:** Innovation plays a critical role in finding sustainable solutions. Akhil stressed the importance of staying updated with the latest technologies and research.
3. **Advocacy and Policy:** Advocacy for sustainable practices and supportive policies are essential to drive change.
4. **Education and Awareness:** Educating and raising awareness among communities are vital for sustainable development.

Q&A Session:

Following his presentation, Akhil engaged in a Q&A session where attendees had the opportunity to ask questions and seek further insights into his experiences and the field of carbon neutrality.

Conclusion:

Akhil Francis's alumni experience sharing session was both informative and inspiring. It shed light on the importance of sustainability in today's world and demonstrated how individuals can make a significant impact in the field of carbon neutrality. His journey from SJ CET Palai to the Netherlands served as a testament to the value of education, passion, and dedication in addressing pressing global challenges. The event left attendees with valuable insights and a renewed commitment to sustainable practices.

Event Name	Talk on Career as a Software Engineer
Date	21 st September 2019
Venue	Main Block Seminar Hall
Organizing Body	Department of Mechanical Engineering, MEA
Resource Person	Mr. Aby Tom
Audience	B.Tech and M.Tech students of ME Department



Alumni Talk and Experience Sharing Report

Event: Alumni Talk on "Career as a Software Engineer"

Date: September 21, 2019

Speaker: Aby Tom

Alumni of: SJCET Palai (2012-2016 Mechanical Batch)

Current Position: Senior Software Engineer at Infosys Ltd

Introduction:

On September 21, 2019, St. Joseph's College of Engineering and Technology (SJCET), Palai, organized an Alumni Talk and Experience Sharing session featuring Aby Tom, a distinguished alumnus of the institution. Aby Tom, who graduated in the Mechanical Engineering batch of 2012-2016, generously shared his insights and experiences regarding his career journey as a Senior Software Engineer at Infosys Ltd.

Key Points of the Talk:

Introduction and Career Transition: Aby Tom began the session by introducing himself and providing a brief overview of his academic journey at SJCET Palai. He highlighted his transition from a Mechanical Engineering graduate to a Senior Software Engineer at Infosys Ltd. This transition served as a compelling example of how diverse academic backgrounds can lead to successful careers in the software industry.

Importance of Adaptability: Aby emphasized the importance of adaptability in the ever-evolving field of software engineering. He spoke about how his background in mechanical engineering equipped him with problem-solving skills and a strong analytical mindset, which were invaluable assets in his software engineering career.

Continuous Learning: The speaker stressed the need for continuous learning in the tech industry. He shared his personal journey of acquiring new skills, including programming languages and software development frameworks, to stay competitive and relevant in his role.

Career Growth: Aby Tom talked about the various stages of his career at Infosys Ltd, from being a junior software engineer to his current position as a senior software engineer. He

highlighted the significance of perseverance and hard work in achieving career growth and success.

Work-Life Balance: Aby addressed the topic of work-life balance and shared tips on how to manage time effectively while working in a demanding industry. He emphasized the importance of maintaining a healthy work-life balance for long-term career satisfaction.

Advice to Students: The speaker concluded the session by offering advice to current students. He encouraged them to be open to opportunities outside their comfort zones, maintain a strong work ethic, and never stop learning. He also advised students to network, seek mentors, and build a strong professional network.

Q&A Session:

Following the talk, there was an engaging Q&A session where students and faculty members had the opportunity to ask Aby Tom questions about his career, experiences, and the software engineering field in general. The session provided valuable insights and advice to aspiring software engineers.

Conclusion:

Aby Tom's Alumni Talk and Experience Sharing session was a resounding success, providing valuable insights into the world of software engineering and career transition possibilities for engineering graduates from diverse backgrounds. His journey from mechanical engineering to software engineering served as an inspiration for students and showcased the importance of adaptability, continuous learning, and perseverance in achieving success in the tech industry. This event not only facilitated knowledge sharing but also strengthened the bond between the alumni and the alma mater.

Event Name	Talk on Career as a Mechanical Engineer (Online mode)
Date	12 th February 2022
Venue	Live Webinar
Organizing Body	Department of Mechanical Engineering, MEA
Resource Person	Mr. Aby Joseph & Mr. Jim Joseph
Audience	B.Tech and M.Tech students of ME Department




ALUMNI TALK & EXPERIENCE SHARING



Aby Joseph
Lead Project Engineer
Suez Oil and Gas
Systems, UAE



Jim Joseph
Senior Team Leader, Product Engineering
ZF Commercial Vehicle Systems India
Ltd., Chennai

 Webinar Live

 Feb 12 (Saturday)  09.00 - 10.00 AM

Department of
Mechanical Engineering



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Report on Online Alumni Talk

Date: February 12, 2022

Topic: Career as a Mechanical Engineer

Organized by: Mechanical Engineering Department

Introduction:

The Mechanical Engineering Department of SJ CET Palai organized an enlightening online alumni talk on February 12, 2022, with the theme "Career as a Mechanical Engineer." The event featured two distinguished alumni, Aby Joseph and Jim Joseph, who shared their valuable experiences and insights into the field of mechanical engineering.

Event Overview:

The online alumni talk was conducted through a virtual platform, which allowed for the participation of both current students and faculty members. The event began with a warm welcome from Dr. Binoy Baby, the Head of the Mechanical Engineering Department, who emphasized the significance of such interactions in shaping the career paths of aspiring engineers.

Keynote Speakers:

1. **Aby Joseph:** Aby Joseph is an accomplished alumnus of SJ CET Palai, having completed his mechanical engineering degree from here. He is currently employed as a Mechanical Engineer at Suez Oil and Gas Systems in the United Arab Emirates (UAE). Aby shared his journey from being a student to his current role at Suez Oil and Gas Systems. He discussed the various challenges he faced in his career and the ways he overcame them. Aby also highlighted the importance of continuous learning and adaptability in the rapidly evolving field of mechanical engineering.
2. **Jim Joseph:** Jim Joseph, another proud alumnus, joined the discussion from ZF Commercial Vehicle Systems in Chennai, India. He provided valuable insights into the Indian mechanical engineering industry and the opportunities it offers. Jim emphasized the need for engineers to stay updated with the latest technological advancements and how he has integrated this into his career at ZF Commercial Vehicle Systems.

Key Takeaways:

Several key takeaways emerged from the alumni talk:

1. **Diverse Career Opportunities:** Both Aby and Jim emphasized that a degree in mechanical engineering opens doors to a wide range of career opportunities, not just limited to traditional engineering roles.
2. **Lifelong Learning:** The speakers stressed the importance of continuous learning and professional development to stay relevant and competitive in the field.

3. **Adaptability:** Mechanical engineers need to be adaptable to evolving technologies and changing industry demands. A flexible mindset is crucial for success.
4. **Networking:** Building a strong professional network is essential for career growth. Alumni associations and industry connections can provide valuable support.
5. **Global Perspective:** Aby's international experience highlighted the global nature of mechanical engineering careers, with opportunities available worldwide.

Q&A Session:

The event concluded with an engaging Q&A session, where participants had the chance to ask questions and seek advice from the speakers. Aby and Jim patiently answered queries, providing practical guidance on career planning and skill development.

Closing Remarks:

The online alumni talk on "Career as a Mechanical Engineer" was an informative and inspiring event that left participants motivated and better informed about the diverse opportunities in the field of mechanical engineering. It also strengthened the bond between the alumni and the current students, fostering a sense of community within the Mechanical Engineering Department.

Event Name	Talk on Career Competency for Mechanical Engineers
Date	11 th April 2023
Venue	SJB Seminar Hall
Focus of the event	Competency for Mechanical Engineers
Organizing Body	Department of Mechanical Engineering, MEA, ASME
Resource Person	Mr. Alen Jose
Audience	B.Tech and M.Tech students of ME Department



Report on Career Competency for Mechanical Engineers

Date: 11/4/2023 *Venue:* SJB Seminar hall

Introduction:

On 11/4/2023, the Mechanical Engineering Department of St. Joseph's College of Engineering & Technology, Palai organized an Alumni Tech Talk on "Career Competency for Mechanical Engineers." The event aimed to bridge the gap between academic knowledge and real-world industry demands, providing valuable insights to current mechanical engineering students. The event was attended by students of the Mechanical Engineering Department interested in enhancing their career prospects in the field of mechanical engineering. The talk featured alumni who have excelled in various sectors of the industry. The talk provided valuable insights into the evolving landscape of mechanical engineering careers and the competencies needed to succeed in this industry.

Speaker:

Mr. Alen Jose: Specialist Simulation Engineer, VOLVO group Truck Technology, Bangalore

Key Takeaways:

The Alumni Tech Talk covered a wide range of topics relevant to aspiring mechanical engineers:

- 1. Overview of Mechanical Engineering Career Trends:**
 - Mr. Alen Jose commenced the talk with an insightful overview of the current trends in the mechanical engineering industry. He discussed how the role of mechanical engineers has evolved with advancements in technology, emphasizing the importance of staying updated with the latest industry trends.
- 2. Core Competencies for Mechanical Engineers:**
 - The speaker highlighted the essential competencies for mechanical engineers, including strong analytical and problem-solving skills, proficiency in computer-aided design (CAD) software, and the ability to work effectively in cross-functional teams. He stressed the importance of honing these skills to excel in the field.
- 3. Soft Skills and Communication:**
 - Mr. Alen Jose emphasized the significance of soft skills such as communication, teamwork, and adaptability. He shared personal anecdotes and examples to underscore how these skills can enhance one's career prospects and lead to better collaboration within teams.
- 4. Adapting to Industry 4.0:**
 - The speaker discussed the impact of Industry 4.0 on mechanical engineering careers, emphasizing the importance of embracing automation, artificial intelligence, and data analytics in day-to-day work. He encouraged attendees to seek opportunities to upskill in these areas.
- 5. Networking and Mentorship:**

- Mr. Alen Jose highlighted the value of networking and mentorship in career development. He shared his own experiences of seeking guidance from mentors and how it had positively impacted his career trajectory. He encouraged the audience to build a professional network and seek mentorship opportunities within and outside the organization.

Interactive Sessions:

The event included interactive sessions where students could ask questions and seek advice from the alumni. These sessions were highly engaging and provided students with practical guidance on career-related queries.

Networking Opportunities:

Following the tech talk, students had the chance to network with the alumni. This allowed for one-on-one discussions and the exchange of contact information for future mentorship opportunities.

Conclusion:

The Alumni Tech Talk on Career Competency for Mechanical Engineers was a resounding success. It not only provided valuable insights into the mechanical engineering industry but also inspired students to take charge of their career development. The event underscored the importance of adaptability, continuous learning, and networking in today's competitive job market. Overall, it was a motivating and informative experience for all attendees, and it strengthened the bond between the department's alumni and its current students.

Acknowledgments:

We would like to express our gratitude to Mr. Alen Jose for sharing his knowledge and experiences. We look forward to more such enriching events in the future, bridging the gap between academia and industry for our mechanical engineering students.

Event Name	Talk on Life of a Marine Engineer
Date	16 th August 2023
Venue	DB-III Seminar Hall
Focus of the event	Life of a Marine Engineer
Organizing Body	Department of Mechanical Engineering, MEA
Resource Person	Mr. Anil Issac Thomas
Audience	Final year and Pre-final year B.Tech students of ME & EEE Departments

REPORT

Talk on Life of a Marine Engineer

On 16th August, 2023, the Department of Mechanical Engineering of SJCET, Palai in association with Mechanical Engineering Association (MEA) of SJCET Palai organized a talk on 'Life of a Marine Engineer'. The event was organized at SJB Seminar Hall during 11.00AM to 12.30PM.

The resource person was Mr. Anil Issac Thomas, an alumnus of SJCET Mechanical Engineering Department (2003-2007 batch). He was formerly a Marine Engineer for 7 years and is currently associated with the field through 'Crewmates App', which is a crew welfare app developed for the Seafares by the Seafarers.

The talk covered the various aspects of marine engineering, such as the types of ships as well as the challenges and risks involved in working at sea. He also described the roles and responsibilities of a marine engineer and the career opportunities and prospects in the Marine Engineering field.

The talk was attended by students and faculty members of the Mechanical Engineering Department and Electrical & Electronics Engineering Department, as well as other interested participants from other departments of the College. The talk was followed by an interactive session, where Mr. Anil answered the queries and doubts of the audience.

