

Udaysinh S Ghatage – allies Uday Ghatge

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Education

D. Y. Patil College of Engineering and Technology, Kolhapur, MH, India,

[B.Tech in Mechanical Engineering - *Class of 2007*] grade – 3.4/4

Research

- Space Application Research
 - DC Powered Satellite Boom Deployment Mechanism. (Patented) } **IIG, EGRL**
 - Spring operated satellite Boom Deployment Mechanism. (Patented) } **ISRO**
 - Tubular Section Balloon Boom. (Patented) } **EGRL**
 - Rocket boom deployment mechanism. (Autonomous) } **NBF, EGRL**
 - Scissor boom deployment mechanism. (Patented) }
 - Basic Science Based Research
 - SUVA Energy Source (Patented) }
 - Relation between color and wave length } Autonomous
 - Mathematical relation of forces below -270 deg with respect to temp and time. (Patented) }
 - Space Propulsion Research
 - SUVA Uday Balloon Principle (Patented) - **IIG and NBF**
 - Hovercraft design and balancing – graduation project
 - Material Electronics
 - Kakrika – USB drive replacement device (Patented) - Autonomous
 - Bio Diagnostic Camera – Blood group and protein detection – Autonomous
 - Material Application Based Research
 - Energy storage and distribution system. (Patented) - Autonomous
 - Software based Research – OS programming
 - Fingerwand system (Patented) (www.fingerwand.in) - Autonomous
 - Mouse House system (Patented) – Individual
- Institutes nomenclatures as below**
- ISRO:- Indian Space Research Organization, Bengaluru – Govt. Space research organization
 - ISAC:- International Study of Arctic Change, Bengaluru – Govt. of India
 - IIG :- Indian Institute of Geomagnetism, Panvel, New Mumbai – Govt. of India
 - EGRL: - Equatorial Geophysical Research Laboratory, Tirunelveli, Tamilnadu. – Govt. of India
 - NBF: - National Balloon Facility, Hyderabad. – Govt. of India
 - Under company MoU:- Shivaji University, Dept of Technology, Kolhapur, MH, India
 - Under company MoU:- Dr. D.Y. Patil University, Department of Mechanical Engineering, MH, India.

Research Patents – 34national, 2 International

1. An Energy converter device(U charge shoes) National - 210615.
2. An Oxygen generating device(An Electro Mechanical Fish Gills) National - 206536.
3. Clutch Less Manual Drive Engine-1(Slant Engine) National 1881/MUM/2007,InternationalPCT/IN2008/000605.
4. Clutch Less Manual Drive Engine-2 National 1882/MUM/2007 International PCT/IN2008/000606.
5. The Continuous Energy generating Device (SUVA Energy Factor, Source) Confidential.
6. System of Energy Storage and Distribution by Using Electric Double Layered Capacitor for Commercial Purpose National 538/MUM/2009
7. System of Energy Storage and Distribution for Commercial Purpose. Co- patent National 539/MUM/2009.
8. System of Energy Storage and Distribution by Using Super Conducting Energy Storage Device for Commercial Purpose Co-Patent. National 540/MUM/2009.
9. Data Transferring System (Kakrika system). Co- patent National 2440/MUM/2009.
10. Data Transferring System with USB Junction System Co- patent National 2441/MUM/2009.
11. Data Transferring with 3 USB Port System. National 2442/MUM/2009.
12. Data Transferring with 4 USB Port System Co- patent National 2443/MUM/2009.
13. Data Transferring with Ear Phone System. Co- patent National 2444/MUM/2009.
14. Data Transferring with Storage Bank System Co- patent National 2445/MUM/2009.
15. Data Transferring with Storage Bank and USB Interface System Co- patent National 2446/MUM/2009.
16. Data Transferring with Storage Bank, USB Interface & Battery. Co- patent National 2447/MUM/2009.
17. Data Transferring with Bluetooth & USB Interface System Co- patent National 2448/MUM/2009.
18. Data Transferring with Storage Bank, USB Interface & Touch Screen System. National 449/MUM/2009.
19. Data transferring with videos & Ear Phone System Co- patent National 2450/MUM/2009.
20. Data transferring with USB Card Reader System. Co- patent National 2451/MUM/2009.

21. Data Transferring with Storage Bank, USB Interface & Option Button System. National 452/MUM/2009.
22. Engine Power Starter with Outsourcing & Energy Bank System. National 412/MUM/2010.
23. Engine Power Starter with Outsourcing & Energy Bank System. Co- patent National 413/MUM/2010.
24. Engine Power Starter with Outsourcing & Energy Bank System Co- patent National 414/MUM/2010.
25. Engine Starter with Outsourcing & Booster Device Co- patent National 415/MUM/2010.
26. Engine Starter with Booster Device. Co- patent National 415/MUM/2010.
27. SUVA-UDAY Balloon principle.(SUVA balloon). Confidential.
28. DC operated boom deployment (DC operated satellite boom deployment mechanism) Confidential.
29. Spring operated boom deployment. (Spring operated satellite boom deployment mechanism) Confidential.
30. Tubular section boom (Brain Chamber tubular section boom deployment mechanism) Confidential.
31. Auto Power Stand.(2 wheelers automated power stand). National 1351/MUM/2011.
32. Auto tri stand with booster Co- patent National 1352/MUM/2011.
33. Auto tri stand with manual interface Co- patent National 1353/MUM/2011.
34. Mouse operated copy and cut system. National 2910/MUM/2012.

Management Experience

- **Brainchamber Research and Development Pvt. Ltd.** 2007 (www.brainchamber.net)
Role: **Co founder & Research Head**
Corporate Identity Number- U73100PN2007PTC130155
- **Brainchamber Technologies Pvt. Ltd.** 2008 (www.brainchamber.net)
Role: **Co founder & Strategy Planning**
Corporate Identity Number- U74900PN2008PTC132372
- **Brainchamber Auto Power Stand Pvt. Ltd.** 2011 (www.autopowerstand.com)
Role: **Co founder**
Corporate Identity Number- U29299PN2011PTC139758
- **Brainchamber Kakrika Pvt. Ltd.** 2012 (www.kakrika.com)
Role: **Co founder & C.E.O**
Corporate Identity Number- U72200PN2012PTC143200
- **Brainchamber Polymers Pvt. Ltd.** 2013 (www.brainchamber.net/polymers)
Role: **Co founder & C.E.O**
Corporate Identity Number- U25199PN2013PTC148345
- Director Identification Number (DIN)- **DIN01426588**
- Brain Chamber **Trade Mark** Number- National- 1490059 (granted)
- Institutional **Collaboration**- Mechanical Department, D.Y Patil College of Engineering & Technology, Kolhapur.
- **BALDA Solutions, Malaysia.**
Manufacturing of **Kakrika**.

Awards and Honors

- Awarded “ **Excellence in Mechanical Engineering**” by **Institute of Engineers India, a Govt. of India** in 2010 – (Most prestigious award)
- Selected amongst **top seventy Inventors of India** by **CIIE** (centre for innovation incubation and entrepreneurship) of **IIM, Ahmadabad**, GJ, India in Nov 2008. (Amongst top 20 ranked management institutes)
- Recommended by **Indian Space Research Organization (ISRO)** for development of **Satellite Boom Deployment Mechanism** in 2010
- Felicitated for “**Designing of Boom for payload** to be deployed in Space-Craft” by Department of Physics, **Shivaji University** (India’s 3rd rank university by research papers) in 2011
- National level – 1st rank for Open Design competition at MIT, Manipal university – 2005
- National level – 2nd rank for Paper Presentation at Pandharpur Engg college - 2004

Leadership and services

Self invented - SUVA-UDAY Education project - providing education for students from investors, donors, and from institutes itself. Based on – (donation [investor] – education [student] – donation [student]). 15 students are learning under this platform during first start. Deliverance is the main objective. Currently, taking it as a national activity.

Recommendations

Dr. Shivram Bhoje – “Padmashri” Awardee – Former Director at Indiragandi Center for Atomic Research, Kalpakkam, Former Chief academic advisor- Shivaji University, Kolhapur. (Govt.)
Dr. R.V. Bhonsle –Ex. Sr. Prof. - Physical Research Laboratory. Honorary Prof. at Space Sci Lab Shivaji Uni.(Govt.)
Dr. S. Gurubaran – Head and Prof. – Equatorial Geophysical Research Laboratory, affiliate of IIG and ISRO. (Govt.)