



### BHASKAR PRAMANIK

Bhaskar Pramanik is the Chairman of Microsoft India. He will look after the company's overall sales, marketing and all other transactions across India. Pramanik has resigned from Oracle India to join Microsoft India. Before Oracle, he was the Corporate Vice President and President, India GEM of Sun Microsystems India.

### SACHIN BANSAL

Sachin Bansal is an Indian Software Engineer and Internet Entrepreneur, known for confounding India's largest e-commerce platform Flipkart. Sachin is from Chandigarh and has graduated from the Indian Institute of Technology Delhi with a degree in Computer Engineering. Sachin Bansal was previously employed by



### SUNDAR PICHAI

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Pichai Sundararajam, is an Indian businessman and a Senior Vice President at Google, where he oversees Android, Chrome and Google Apps. Born in Chennai, he received his Bachelors in Technology of Metallurgical and Materials Engineering in 11T Kharagpur. Pichai joined Google in 2004, where he led the product management, including Google Chrome and Chrome OS, as well as being largely responsible for Google Drive. He went on to oversee the development of apps like Gmail and Google Maps. He was rumored to be one of the contenders for the CEO position of Microsoft in 2014.



# SHANTANU NARAYEN

Shantanu Narayen is the CEO of Adobe Systems, Prior to this post, he held the role as the President and Chief Operating Officer since 2005. He is also the President dent of the board of the Adobe Foundation. He started his career at Apple. After Apple, Narayen servers as director of desktop and collaboration products for Silion Graphics, then co-founded Pictra Inc., a company that pioneered the concept of digital photo sharing over the Internet. Shantanu Narayen is paid an annual salary of \$875,000 for his role as chief executive.



HEAD OF THE DEPARTMENT - Dr. M. CHANDRASEKAR STAFF ADVISOR - Dr. D. ARIVUDAINAMBI PRESIDENT - Mr. M. LOKESH ARUN KUMAR CRUK HEAD - Mr. S. GAUTHAM DESIGNS - Mr. E. SIBHI RAJAN

OCTOBER EDITION 5.1 2014 DEPARTMENT OF MATHEMATICS ANNA UNIVERSITY, CHENNAI MAGAZ READERS AVENUE BRAIN GATE GOO LIGHT/ CAR FIDELITY [LIFI] **OCULUS** SCREENLESS **PHONES** DISPLAY RIFT POWERED BY WATER DID YOU HACKING 5 DÖ YOU **EARTH** KNOW THEM?



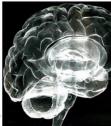
2 BRAIN GATE

3



# 4 LI-FI DATA TRANSMISSION

GLASS BRAIN 5



SMARTPHONES SOON POWERED BY WATER

oduce small amount of electricity. There are some constraints cause the process relies on condensation, it requires a humid vironment, as well as a source of temperature colder than the

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LFE

6 REALITY OF LIFE !!!

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The word LIFE could be abbreviated as Lots In Fates Eyes. Yup! It's the most puzzling game played by fate on each of us. To manage all

No steering wheel? Not so fast. It ferries two people from one place to another without any user interaction. The car is summoned by a smartphone for pick up at the user's location with the destination set. There is no steering wheel or manual control, simply a start button and a big red emergency stop button. In front of the passengers there is a small screen showing the weather, the current speed and a small countdown animation to launch.

Once the journey is done, the small screen displays a message to remind you to take your personal belongings - reinforcing that this is not aiming to be a substitute for your personal car at the moment, but more as a replacement for the taxi without the human

Powered by an electric motor with around a 100 mile range, the car uses a combination of sensors and software to locate itself in the real world combined with highly accurate digital maps. A GPS is used, just like the satellite navigation systems in most cars, to get a rough location of the

car. at which point radar, lasers and cameras take over to monitor the world around the car, 360degrees. The software can recognise objects, people, cars, road marking, signs and traffic lights, obeying the rules of the road and allowing for multiple unpredictable hazards, including cyclists. It can even detect road works and safely navigate around them.

- Madhan Ram R M.Sc(5th yr)

CARS 

THE AUTONOMOUS CAR OF THE FUTURE IS HERE

IF YOU CONTROL THE CODE, YOU CONTROL THE WORLD

A team of researchers, at the University of California, have identified a weakness believed to exist in Android, Windows and iOS mobile operating systems that could be used to obtain personal information from unsuspecting users. Amazon, with a 48 percent success rate, was the only app they tested that was difficult to penetrate. The researchers started working on the method because they believed there was a security risk with so many apps being created by some many developers. Once a user downloads a bunch of apps to

his or her smart phone(malicious app) they are all running on the same shared infrastructure, or operating system. Once that app is installed, the researchers are able to exploit a newly discovered public side channel—the shared memory statistics of a process, which can be accessed without any privileges. (Shared memory is a common operating system feature to efficiently allow processes share data). The researchers monitor changes in shared memory and are able to correlate changes to what they call an "activity transition event," which includes such things as a user logging into Gmail or H&R Block or a user taking a picture of a check so it can be deposited online, without going to a physical CHASE Bank. There are two keys to the attack. One, the attack needs to take place at the exact moment the user is logging into the app or taking the picture. Two, the attack

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" THE ART OF **EXPLOITATION** 

- Kesavan A G M.Sc(5th yr)



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CEG RECAST 1794 - Started as a Survey School 1859 - Established as a College 1978 - Finally made a Technical Institute 1963 - First Institution in South India to

have established a Computer Centre

A DOSSIER

\* First college in the country which has its own postage stamp.

\*Oldest college to have UNESCO patronage for a technical event ("KURUKSHETRA")

TECHNO-STUFF

\* Established TN's first interactive Satel-lite Terminal under EDUSAT.

\* Anna University Microsatellite(ANUSAT) sponsored by ISRO.

\* Ten year old ANNA FM 90.4

NOTABLE ALUMNUS of CEG

Sanjay Parthasarathy - Former Microsoft executive
 Dhiraj Rajaram - Founder of MuSigma
 Parthasarathy IFS - Former Ambassador of India
 Krishnamachari Srikkanth - Former Indian Cricket



- \* The Vice-Chancellor Prof. Dr. M. RAJARAM, Anna University, discussed future collaborations with the delegates from the University in UNITED KINGDOM.

- UNITED KINGIOM.

  \* He interacted with the students from Shibaura Institute of Technology, Japan undergoing two week internship programme.

  \* He visited Electrical Drives Laboratory in the National Research University Moscow Power Engineering Institute.

  \* He inaugurated the Training and Awareness Programme on JGate@UGC-INFONET a Regional Workshop for University Library.

