

# Shailendra Paliwal

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## Education

- 2012–2016 **Jaipur Engineering College and Research Centre, Jaipur**, *Bachelor of Technology*.  
Major: Electronics and Communications Engineering
- 2002-2012 **Kendriya Vidyalaya No.1, Udaipur**, CBSE.  
All India Senior School Certificate Examination  
All India Secondary School Examination

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## Experience

- November, 2016 - **Product Engineer/New Media Arts Researcher**, 9U MEDIA LABS, Mumbai.  
May, 2017 As the sole engineer I worked on an entire spectrum of projects which focused on building the lab from ground up. This included but not limited to, setting up a makeshift electronics lab, design & implementation of electronic hardware and software tools exploring creative & experimental technologies for design fiction.
- 2015 **Research Assistant**, ZETATREK, (remote).  
Worked on a document that traces the historical journey from foundations of mathematics to the Riemann Hypothesis while introducing mathematical concepts for an audience of laypersons.
- 2014 **Director General**, JECRC MODEL UNITED NATIONS, JECRC, Jaipur.  
Managed Finances, PR, Identity Design and technical back-end for the conference while working in a 5-member team. Led a team of more than 10 volunteers. Ensured transparency in finances. Learned about standard practices in marketing, PR and identity design.
- 2013-2015 **Lead Designer**, J-MAG, JECRC, Jaipur.  
Responsible for magazine layouts and typesetting. Introduced industry standard tools to the team of 3 designers. Promoted to this position after working as an Associate Editor for a year

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## Design & Code

- Skills Rapid Prototyping, Embedded Systems, Version Control, Analytics, Data Wrangling and Visualization, Machine Learning, Layout Design, Front-end Web Development, Science and Math Communication, Technical Writing
- Tools R, Python, Javascript, Processing, Adobe Creative Suite, Node.js, C/C++, MATLAB, VHDL, Machine Tools

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## Projects

- May, 2016 **One Line Drawings Robot**.  
A drawing robot that uses no microchips or circuit boards and uses multiple software processes to turn any raster image into sound files. This makes any audio device an on-the-go robot controller. We made this as a team of 4 using our knowledge of image processing, audio formats and signal processing
- December, 2015 **Touchless 3D Tracking Interface**.  
A low-cost device that can track position of an object in 3D using three mutually orthogonal planar capacitive sensors. In the 4-member team, I led the development of GUI and processing information from the Arduino
- January, 2015 **Know Your MP**, shailendra.me/knowYourMP.  
A choropleth map that visualizes criminal and financial data from Election Affidavits of current member of Parliament using javascript library D3.js. With a teammate, I worked on data-extraction, cleaning, and rendering the interactive visualization
- November, 2011 **Game of Sudoku**.  
A command line version of the Japanese puzzle game Sudoku that had limited graphical abilities. I wrote it using ncurses C library while following the course material from Harvard University's CS50 open coursework.

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## Publications

- Conference Paper Shailendra Paliwal (2015), "Using Exploratory Data Analysis Methods to Analyze Literacy Rates in Indian Districts", Paper presented at the National Conference on Advances in Mathematical Sciences and Applications in Engineering and Technology AMS-AET (2015)
- Blog Shailendra Paliwal's Blog - *shailendra.me* (2015)
- Article The Fuss about God Particle - *UdaipurTimes.com* (2012)
- Blog I Didn't Know That! *techmania-shail.blogspot.com* (2008-2011)

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## Honors

January, 2015 **Top 5 Hacks**, Jaipur Hackathon, Project: KnowYourMP.