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| Education | B.E. Mechanical Engineering Thapar Institute of Engineering and Technology, Patiala, Punjab  2016 – present  GPA – 8.67/10 (till 6th Semester) Class XII C.B.S.E Shivalik Model Sr. Sec. School, Nangal, Punjab  2015 - 2016  Marks – 86.2% Class X I.C.S.E Mount Carmel Sr. Sec. School, Una, Himachal Pradesh  2013 - 2014  Marks – 88.4% |
| Experience | R&D Trainee L.G. Electronics India Ltd., Greater Noida, U.P.  January 2019 – June 2019  I was responsible for production support and new C1 grade (major structural change) microwave oven development. My major task was to replace the incandescent lamp used in the oven with a LED.   * Find the optimum location, material and structure for LED holder. * Prepare design guidelines based on testing and analysis. * Design a LED holder and perform photometric analysis on it. * Remove any 3F (Feel, Fit and Finish) issues.  Project Trainee Honda Cars India Ltd., Greater Noida, U.P.  June 2018 – July 2018  My project was to study process and defects taking place inside Automotive Paint Shop. |
| Projects | Room Swap android application Designed and developed an android application for students who were randomly allotted rooms against their preference during the Hostel allotment process. It helped the students to find a match with whom they could swap their rooms. The userbase reached 55 students within the first hour of its launch. Total userbase 89 out of 140 affected students.   * Designed an algorithm for direct and multiple swapping of rooms. * Developed the UI and backend of the application for direct swapping.   Tools Used- Dart, Flutter, Firebase Cloud firestore UX Case Study of mobile payments in India A user experience case study of current mobile payment solutions in India and how could they be improved.   * Created User Personas and conducted interviews. * Created User Journey and mood map. * Analyzed the pain points and designed a user flow for a better mobile payment solution. * Created wireframes and designed prototype for a mobile app for the proposed solution.   Tools Used- Adobe XD, Invision Studio Design and Financial analysis of Piezoelectric tiles Designed and checked the financial feasibility of electricity generation using piezoelectric tiles. Line Follower Robot Developed a Line following and obstacle sensing robocar using Arduino Uno microcontroller and Xbee radio module. Redesign Mangonel Design, construction and analysis of a “Mangonel”.   * Performed structural analysis of certain key components of the Mangonel for static and dynamic stresses. * redesigned the throwing arm of the Mangonel to optimize for distance without compromising its structural integrity.   Tools Used- Arduino Uno, MS Excel |
| Awards & Certifications | Won 1st prize in Junkyard in Elementos 3.0   * Designed and implemented a monthly bus pass system using RFID and Arduino UNO microcontroller. |
| Skills | Programming Languages- Java, Dart, C++, Solidity, VBA, Python  Markup Language- HTML  Frameworks & Toolkits- Flutter, Swing  Version Control- Git  UI/UX Tools- Adobe XD, Invision Studio, Zeplin  CAD Tools- PTC Creo, NX/Unigraphics, Solidworks  CAE Tools- Breault APEX |
| [aryankhera.studio.design](http://aryankhera.studio.design) | |