



ALICHWANVERSE Virtual Reality 360 School Tour with AI Assistant

UNDERGRADUATE THESIS

**Submitted as one of the requirements to obtain
Sarjana Komputer (S.Kom.)**

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CIKARANG
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GPT ANTI-PLAGIARISM CHECK RESULTS

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1. Voltage Levels:

Operating voltage (Vcc): +2.4V, +4.8V, +15V, +16V, +20V/-20V

Maximum operating frequency

Switching time and maximum data rates

IO voltage level (TTL5V, CMOS), max tolerance, VIH, VIL, VOH, VOL

IO setup time, hold time, data valid time

Type of IO: Digital or analog pin

Open collector or totem pole output

Total number of IOs required for website

Type of communication interfaces such as SPI or I2C and speed

Power dissipation

Commercial 0° C to 40° C, mil-grade -50° C to 75° C, industrial -35° C to 75° C

Size

2. Data Formats:

Mobile phones

Mobile phones come in many different form factors, including bars, flip phones, sliders, phablets, and industrial handheld devices.

Tablets

Tablets combine a touch screen, rechargeable power source, and other components into a single chassis.

Servers

Server form factors come in a wide range of styles including pedestal, rackmount, and blade.

Desktop computers

The HP EliteDesk 800 G9 Desktop Mini PC is an example of a small form factor computer.

4. Other Formats:

Audio-Video Interleave format (.avi): A format used for moving images

TAR, GZIP, ZIP: Container formats

SHP, DBF, GeoTIFF, NetCDF: Geospatial formats

WAVE, AIFF, MP3: Sound formats

DTA, POR, SAS, SAV: Statistical formats sliders, phablets, and industrial handheld devices.

WARC: A web archive format

Highlighted text is suspected to be most likely generated by AI*

2,178 Characters

336 Words

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ABSTRACT

ALICHWANVERSE is a Virtual Reality (VR)-based platform that offers a 360-degree virtual school tour experience for YPI Al-Ichwan, ranging from Playgroup to Senior High School. Prospective students and parents can explore the school's facilities through an immersive virtual environment, powered by AI-based virtual assistants to provide information instantly. This objective is create a platform place where prospective students and their parents can find out complete school information through an online website and they do not need to go to the school directly, so they can simply do a virtual tour activity together from anywhere anytime around the school building using their respective laptops, 360 degree website and getting instant answers to their questions through the CHATBOT (AI) Virtual Assistant. This methods is using quantitative method for research approach that uses numerical data (numbers) and statistical analysis. For the summary throughout the development process, the project adhered to a structured timeline, encompassing phases such as requirement gathering, design, content collection, back-end and front-end development, AI chatbot integration, VR environment integration, testing, beta testing, marketing, deployment, and post-launch monitoring. This systematic approach ensured the platform's functionality, user-friendliness, and alignment with the school's objectives. In conclusion, the ALICHWANVERSE Virtual Reality Tour project has effectively utilized advanced technologies to enhance the school's outreach efforts, providing a valuable resource for prospective students and parents. The platform's success underscores the potential of integrating virtual reality and AI technologies in educational

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