



Sky Shuttle Adventure

Exploring the Future of Urban Mobility

**BYD Sky Shuttle Technology
Research Camp @Pingshan, Shenzhen**





Sky Shuttle - A New Kind of Urban Transport

The Sky Shuttle is BYD's fully automated, electric light rail that runs on elevated tracks above city streets.

- **Driverless** - fully automated with no onboard staff
- **Elevated track** - takes up no road space
- **Smart control centre** - one central brain monitors every train
- **Automated stations** - no staff needed
- **100% electric** - zero emissions, quiet, and efficient

Developed over 7 years with a 10 billion RMB investment - 100% BYD technology.





Project Introduction & Highlights



This is a half-day research trip to experience BYD Sky Shuttle (云巴), BYD's groundbreaking 100% self-developed intelligent low-capacity rail transit system.

Perfect for students interested in **engineering, sustainable technology, smart cities, and future urban planning.**

- **Cutting-edge Technology:** Fully autonomous driving, AI-powered control systems, and intelligent operation
- **Green & Sustainable:** Powered by new energy, featuring lightweight all-aluminum body and energy-efficient design
- **Hands-on Experience:** Close-up vehicle inspection, visit to the OCC "Brain" control center, and actual SkyRail ride
- **Future-Focused:** Understand how innovative rail systems can transform smart cities and daily urban life



Itinerary



Total Duration: Approximately 90 minutes (flexible based on group needs)

Time	Activity
20 min	Arrival & Orientation – Assembly at Pingshan Sky Shuttle Line 1 Depot (1st Floor Lobby) + group photo & check-in
20 min	Depot Tour – Close-up look at Sky Shuttle vehicles. Key technologies: switches, permanent magnet synchronous motors, all-aluminium car body, self-steering axles
20 min	OCC Control Centre – The "brain" of the system (3rd Floor). See how full autonomous driving, automatic detection, video monitoring, and intelligent dispatching work
30 min	Sky Shuttle Ride – From Culture Junction to BYD North Station. Experience driverless travel, unmanned station operations, and how the train turns and changes direction





Visit Highlights



The Depot - How Does It Stay Safe?

Students visit the maintenance depot where Sky Shuttle vehicles are inspected and repaired.

What they'll learn:

The engineering behind safety - sensors, brakes, communication systems, and real-time monitoring.





Visit Highlights



The OCC Control Centre - How Does Driverless Operation Work?

Students enter the central brain that controls every Sky Shuttle train.

What they'll see:

- Automatic train wake-up and self-diagnosis
- Video monitoring and visual cluster systems
- How one control room manages an entire transit line





Visit Highlights



The Ride - What Is Fully Automated Travel Like?

Students take a real ride from Culture Junction to BYD North Station.

What they'll observe:

- Trains running with no driver
- Stations operating without staff
- How the shuttle automatically turns around and changes direction





Thank you!

**For school programmes, collaborations,
or future visits, please reach out.**



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