



# The Emergence of AI in Chinese Smart City Development

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# Background



- Currently CEO, Archimedes Controls Corp., a Silicon Valley based data center security solution provider
- General Manager, Chairman and Legal Representative, JDSU (China), a Silicon Valley based optical technology company
- CEO/Chairman of 3 Silicon Valley and Mid-Atlantic VC backed startups acquired by publicly traded companies.
- Product Line Manager, Hardware Manager, TTC, Communications test and measurement market leader
- M.S. and B.S. Electrical Engineering, University of Maryland
- Limited Partner of several US-based venture capitals and mentor/advisor of startups and VCs
- Holds several U.S. patents in various technology fields

# Current Smart City Development and Applications



- Mobile payment everywhere. Cash is unnecessary
- Smart city programs and mandates in tier 1 to tier 3 cities
- Smart cars and self-driving vehicles
- 10% of total global data centers
- Massive data collected for analytics and AI apps
- Huge number of conferences and trade shows

- Street sensors for traffic tracking and control, parking garages for driver guidance.
- Visitors tracking in buildings
- Hundreds of millions security cameras
- Face recognition and tracking
- Low cost 3G/4G data services
- Solar-wind energy powered street lights and traffic signals/signs
- Transportation – high speed trains, EVs



# Investment in Smart Cities, Infrastructure and AI

- ❑ National high speed train backbone networks are near complete
- ❑ Subway system in almost every major cities are being built at rapid speed
- ❑ 4G/5G mobile data networks are almost everywhere. Low cost mobile data services offered by all three carriers
- ❑ Smart grid development and 3<sup>rd</sup> party power trading entities are now allowed
- ❑ Local EPAs are developing environmental monitoring networks in every county
- ❑ Government sponsorships and programs
- ❑ AI and ML investment from VCs and PEs



# Archimedes Controls Projects

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## Energy Department Announces New Projects between U.S. and China to Cut Emissions

### **Participated in a joint program between US DOE and China DOE. Retrofitted a Customs building – Achieved 24% energy savings**

The U.S. Department of Energy (DOE) today announced nine new energy performance contracting pilot projects that bring together U.S. and Chinese companies to boost the energy efficiency of buildings in China and reduce greenhouse gas emissions. A combination of clean energy retrofits and upgrades will save the selected facilities on energy costs over the lifetime of the contracts by making them more energy efficient. The savings on utility bills created through the facility upgrades will be used to pay for the projects over the terms of the contracts, and the improved facilities will continue to save money and energy after the contract terms have ended. The new projects support the efforts of both countries to work together to address climate change as recently formalized under the [Paris Agreement](#).

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# Thank You!

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