

# Seminar



## DSN-I Seminar Series - Bitcoin is a protocol

**Veerbhan Kheterpal**

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### Seminar abstract

At the turn of the previous century, the Internet protocol disrupted information exchange. The fragmented communication on our planet was transformed to a vast but 'flat' landscape. Further, the fabric of Internet is ubiquitous utility-like that enables mutual communication regardless of physical/political boundaries, states & countries. People reorganized over the internet, formed communities and exchanged information. A crucial component of community however is the ability to exchange value & make payments. Most of the solutions that addressed value exchange (credit cards, bank wires, Swift, ACH etc.) were essentially ports of pre-internet technologies. Bitcoin attempts to solve value exchange in the true spirit of Internet. In other words, it solves value exchange similar to how Internet solved information exchange. This talk will focus on the Bitcoin protocol and how payments are only the beginning of what Bitcoin disrupts.

The DSN-I Seminar Series is hosted by the Device Science and Nanofabrication Initiative. DSN-I Seminars target researchers in micro and nanofabrication technologies or devices, with the goal of strengthening the user community of the new Scott Hall nanofabrication facility and other shared infrastructure.

### Speaker bio

Veerbhan Kheterpal is an entrepreneur & a Carnegie Mellon (ECE) alumnus. He graduated in 2006 with a Ph.D and contributed to research in semi-custom / automated design flows and algorithms targeted for sub-40nm manufacturing technologies. He co-founded 21, Inc. in 2013. The company is focused on driving applications of the Bitcoin protocol. At 21, Veer has worked on building consumer focused Bitcoin products. He also worked on building highly efficient Bitcoin mining chips (sub-24nm technology nodes).

In 2005, Veer co-founded Fabbrix, Inc. Fabbrix was based on Regular Fabrics research lead by Dr. Larry Pileggi at CMU. The company was focused on tools and flows to build ICs that are optimized for yield-area-performance by construction. Fabbrix was acquired by PDF Solutions, Inc in 2007 where Veer was working on several initiatives including product research, development and technical marketing. He received his B.Tech degree in electronics & electrical communication engineering from Indian Institute of Technology Kharagpur in 2002.