Mead Education

# On-Line Class

Baskin Engineering UC SANTA CRUZ

# Wireline SERDES Transceivers

## JULY 13-17, 2020

**PST - California Time Zone**

**Monday, July 13**

| | | |
|---|---|---|
| 08:00 - 09:30 am | Introduction to Wireline Transceivers | Pavan Hanumolu |
| 10:00 - 11:30 am | Transmitters (CML/VM) | Pavan Hanumolu |
| 01:00 - 02:30 pm | FIR Equalizers (Tx/Rx) | Pavan Hanumolu |
| 03:00 - 04:30 pm | Receivers (CTLE, DFE, Adaptation) | Pavan Hanumolu |

**Tuesday, July 14**

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|---|---|---|
| 08:00 - 09:30 am | Phase-Locked Loops | Pavan Hanumolu |
| 10:00 - 11:30 am | Phase-Locked Loops | Pavan Hanumolu |
| 01:00 - 02:30 pm | Advanced PLLs | Pavan Hanumolu |
| 03:00 - 04:30 pm | Clock and Data Recovery | Pavan Hanumolu |

**Wednesday, July 15**

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|---|---|---|
| 08:00 - 09:30 am | Advance Signaling Methods | Armin Tajalli |
| 10:00 - 11:30 am | Short Reach Transceiver Design Tradeoffs | Armin Tajalli |
| 01:00 - 02:30 pm | Tradeoffs in Design of Slicers | Armin Tajalli |
| 03:00 - 04:30 pm | Discrete-Time Front-End Design | Armin Tajalli |

**Thursday, July 16**

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|---|---|---|
| 08:00 - 09:30 am | Clock and Data Recovery (ct'd) | Pavan Hanumolu |
| 10:00 - 11:30 am | Baud-Rate CDRs | Pavan Hanumolu |
| 01:00 - 02:30 pm | Introduction to PAM4 Signaling | Pavan Hanumolu |
| 03:00 - 04:30 pm | Trans-impedance amplifiers | Pavan Hanumolu |

**Friday, July 17**

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|---|---|---|
| 08:00 - 09:30 am | Optical Transmitters | Sam Palermo |
| 10:00 - 11:30 am | Design of ADC-Based Serial Links | Sam Palermo |