Kenneth Cornelison

923 Winged Foot Way
Cincinnati, OH 45245
513 365 5638
kenneth.cornelison@outlook.com

SUMMARY

My experience provides capabilities as a senior level technical manager with product and equipment development expertise for a wide range of copper and fiber cable products. Significant accomplishments were implemented using a team oriented approach to development activities. I have developed strong technical leadership skills and a proven track record of innovations, patents, cost reductions, and intellectual property development.

PROFESSIONAL EXPERIENCE

Publications (Author or Co-Author)

2010 IWCS - High Speed Laser Gages for Lay Length Measurement and FFT Analysis for Assessment of Process Stability (available at www.IWCS.org)

2012 IWCS - Shielding Performance Tests for Twisted Pair Communications Cables (available at www.IWCS.org)

2016 IWCS - RF Immunity of Category 6A Cables (available at www.IWCS.org)

2017 IWCS- Performance Comparison of Reduced Diameter Category 6A Cables (available at www.IWCS.org)

2018 IWCS - CW and EFT Noise Coupling to Category Cables and the Effect on 1Gb/s Ethernet Traffic (available at www.IWCS.org)

Instructor (or Co-Instructor)

IWCS Symposium 2013, 2014, 2015, 2018, (2023 Planned)
CU202: COPPER CABLING TECHNOLOGY – ADVANCED TRANSMISSION LINE THEORY AND MEASUREMENTS

IWCS Symposium 2016, 2019, 2022
CU207: FUNDAMENTALS OF SIGNAL INTEGRITY (An Introduction to noise and measurements for cable and connectivity engineers)

Patents (Inventor or Co-Inventor)

2022 - US-11257610-B2 - Multiple conduits bundled together in a combination conduit configuration
2020 - US-10825578-B1 2019 Multiple conduits bundled together in a combination conduit configuration
2019 - US-10170220-B2 Extended frequency range balanced twisted pair transmission line or communication cable
2015 - US-9159471-B2 Communication cable with improved crosstalk attenuation
2015 - US-9024193-B2 Communication cable with improved crosstalk attenuation
2015 - US-8946555-B2 Communication cable with improved crosstalk attenuation
2015 - US-8927866-B2 Communication cable with improved crosstalk attenuation
2013 - US-8467073-B2 Lay length and ratio measuring device for electrical cable
2013 - US-8354590-B2 Communication cable with improved crosstalk attenuation
2012 - US-8217267-B2 Communication cable with improved crosstalk attenuation
2012 - US-8183462-B2 Communication cable with improved crosstalk attenuation
1990 - US-4964691-A Optical fiber cable having optical fibers with various lengths
1990 - US-4944570-A Fiber optic cable having an extended elongation window
1988 - US-4792422-A Method of making an optical fiber cable
1988 - US-4786137-A Optical cable with filling compound and parallel fibers
1988 - US-4757675-A Process and apparatus for making fiber optic cable
1988 - US-4741684-A Optical cable with filling compound and parallel fibers

Marmon IEI **Attleboro, MA** **Contract Services 2022-Present**

• Support development projects for Category cable processes, products, and testing. Evaluate process control equipment.

Hitachi Cable Systems **Manchester, NH** **Contract Services 2011-2021**

• Support development projects for Category cable processes by providing design and test support for new and updated products. Supported activity in the TIA industry forum to develop new and updated Category cable standards.

NDC/Beta Lasermike **Dayton, Oh** **Contract Services 2009 to 2022**

• Supported development of new lay length measurement technology with reduced component dimensions
• Developed Layscan technology and prototypes, in partnership with BetaLasermike, then provided technical assistance for the development of the final production version hardware.
• Developing a series of on-line training modules for use by BetaLasermike personnel for hardware and customer application training. Modules include training material as well as structured assessments to measure progress.

General Cable **Highland Heights, KY** **2005 to 2009**

VP Intellectual Property

• Developed IP processes, including inventor new recognition policy, initiated IP reviews with technology groups, and created first company specific training package for engineers
• Key legal resource for technical litigation with strong interaction with internal and outside counsel.

VP Technology – Data Communications

• Developed copper communications cables with unique and market leading cable technology for the emerging 10Gbit Ethernet protocol, resulting in significantly improved electrical performance..
• Developed new cable designs for high end Category 6 product line and developed technologies and materials for lower cost products.
• Develop and qualify new thermoplastic materials for improved flame performance, lower cost, and improved electrical properties.

Belden Wire and Cable **Richmond, IN** **1992 to 2005**

Process Development Manager

• Responsible for manufacturing equipment development, materials compounding technology and automated manufacturing process technology.
• Key technical advances in equipment resulted in changes that improved performance in areas such as SRL (structural return loss) and cable attenuation.
• Cable jacket and component compound development and updates for product performance improvement.

Product Development Manager

• Responsible for development activity for a wide range of electronic cable product lines.
• Established a new "Design for Manufacturing" system used for the implementation of all new major product introductions to reduce startup cost and transfer time to the plants. Improved quality of key attributes and substantially reduced first time failure rates..

Alcatel Cable Systems **1988-1992**

Production Superintendent

• Implemented significant cost and volume improvements, managed and expanded the operations staff, and implemented process improvements that reduced scrap by 50%

Manager – Product Development and Customer Engineering

• Developed new loose tube and uni-tube outside plant fiber optic cable designs. Also developed and supported outside plant copper cables and a line of accessories for optical fiber cable connections.

Anaconda; Anaconda-Ericsson **1976-1988**

Manager – Product Development
• Developed outside plant optical fiber cables and connectors, including loose tube and optical ground wire products. Developed novel and patented cable and manufacturing processes for new products

Development Engineer – Power Cables
• Developed medium voltage power cables for mining, industrial, and utility applications and conducted qualification tests for materials and new cable designs.

Square D 1974-1976
• involved in technical marketing for 600 volt switch gear