

# VENKAT RAJA

SURFACE FINISHING  
PROFESSIONAL

<https://www.linkedin.com/in/venkatraja>

## Education:

2017	Masters in Business Administration Don Bosco University, India
1990	Bachelor of Science – Chemistry MK University, India

## Patents, Patent Declaration, & Invention:

1. Provided international protection and patent declarations on ionic liquid tantalum boride deposition method.
2. Invented beta phase tantalum thick deposit.
3. Submitted three patent applications representing The Boeing Company | Applications # 18-0761 US NP, # 18-0759 US NP & # 18-0762 US NP (Sn/Bi plating & plating on Ti).

## Experience and Expertise:

1. Electrolytic and electroless plating, ionic liquid plating, and physical vapor deposition (PVD).
2. Deposited 23 elements – Ni, Au, Zn, Cr, Cu, Pd, Ag, In, Sn, Bi, P, B, Ti, Ta, Nb, Mo, Zr, Pt, Co, N, Hf, Rh, and Pb.
3. Deposited on ~ 50 different substrates of copper, ferrous, nickel, aluminum, and titanium alloys.
4. Worked in the field of plating and surface finishing for 30 years in operations leadership, engineering, and research roles in Canada, USA, and India.
5. Conference Speaker

## Strengths:

Automation | Process Control | In situ and Ex situ Analyses | Water and Waste Water Treatment Systems | Lean | Statistics | Management | Safety | Environment | REACH | Physical Characteristics

## Interests:

Economics, finance, and politics

## Likes:

Reading and writing

Recently served The Boeing Company in a senior engineering role supporting the global Chemical Technology group

# ACHIEVEMENT HIGHLIGHTS

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- ✓ Transformed an average performing plating department to a high-performance team of a leading hardware manufacturing company.
  - ✓ Designed a large and truly automated electroless nickel- boron plating line for US Army Research Labs (ARL). This was a \$4 million USD project.
  - ✓ Led hard trivalent chromium plating research project to replace hard hexavalent chromium plating on Boeing Commercial Airlines (BCA) and Boeing Defense, Space & Security (BDS) applications.
  - ✓ Provided a technical presentation at SUR/FIN 2018 conference on “The Trivalent Hard Chromium Deposit and the Physical Characteristics.” representing The Boeing Company.
  - ✓ Resolved a complex two-decade-old and three continent-wide electroless nickel boron abnormal deposit growth issue within two hours.
  - ✓ Provided strategic and tactical business guidelines in identifying and aligning market verticals and research/engineering on ionic liquid plating applications. This led to increased business and a clear marketing direction.
  - ✓ First to optimize a high-volume gold PVD deposit process method on electroplated nickel with a first-time acceptance increase from 92 to 98%.
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