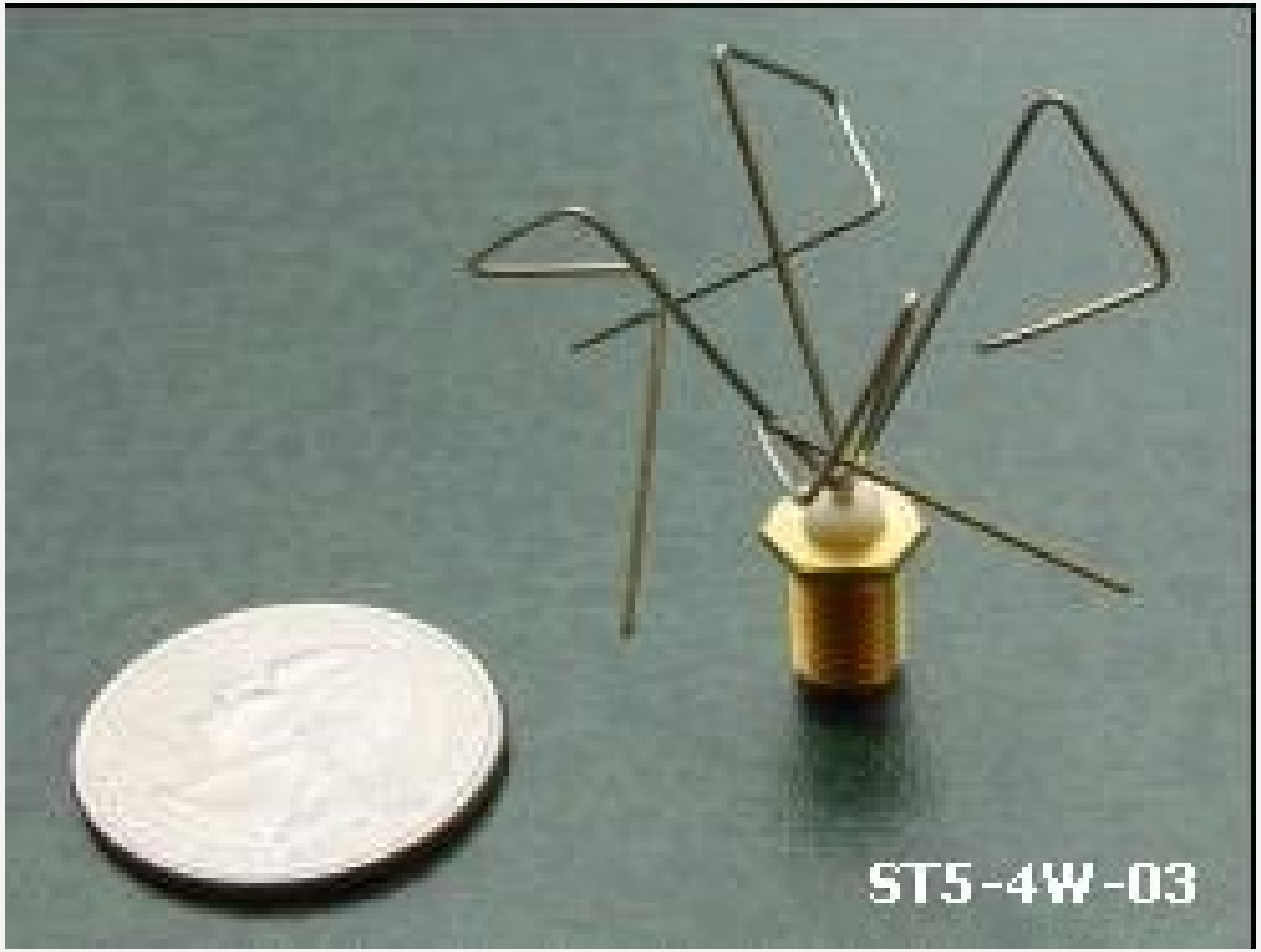
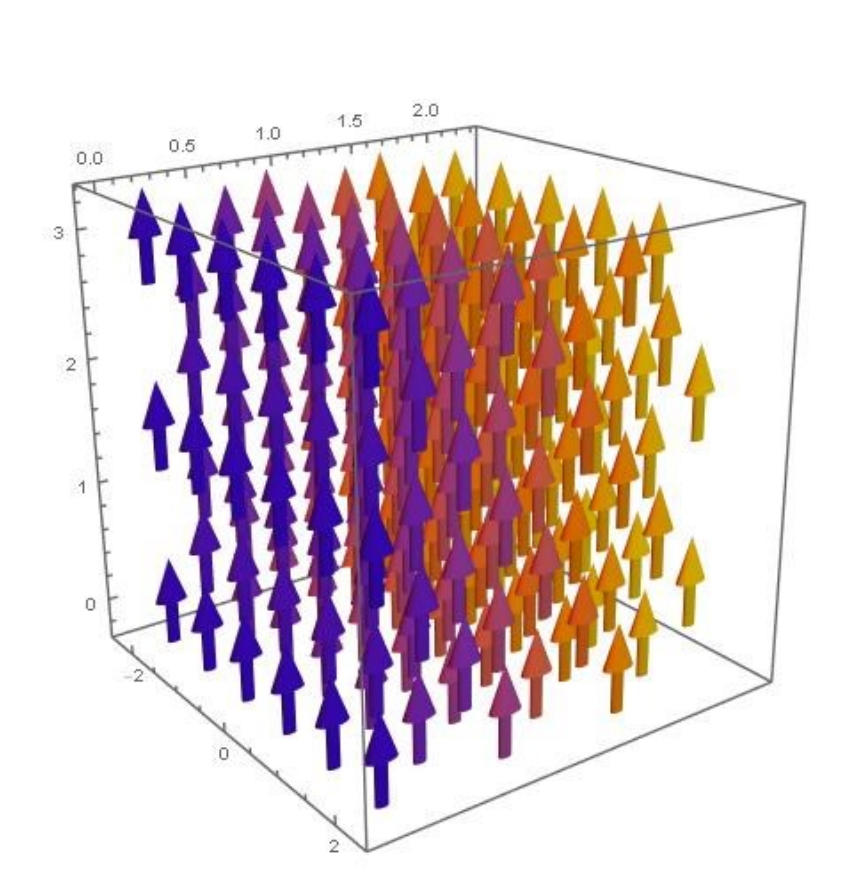
HOW AN ANTENNA DESIGN PROJECT GOES - NOT SO FAR FROM THE TRUTH ☺

HOW THE CUSTOMER EXPLAINED IT



HOW THE BISNES CONSULTANT SAW IT

HOW THE UNDERGRADUATE STUDENT APPROACHED IT



$$\boldsymbol{E}(\rho,\varphi) = \rho \sin\varphi \ \boldsymbol{u}_z$$

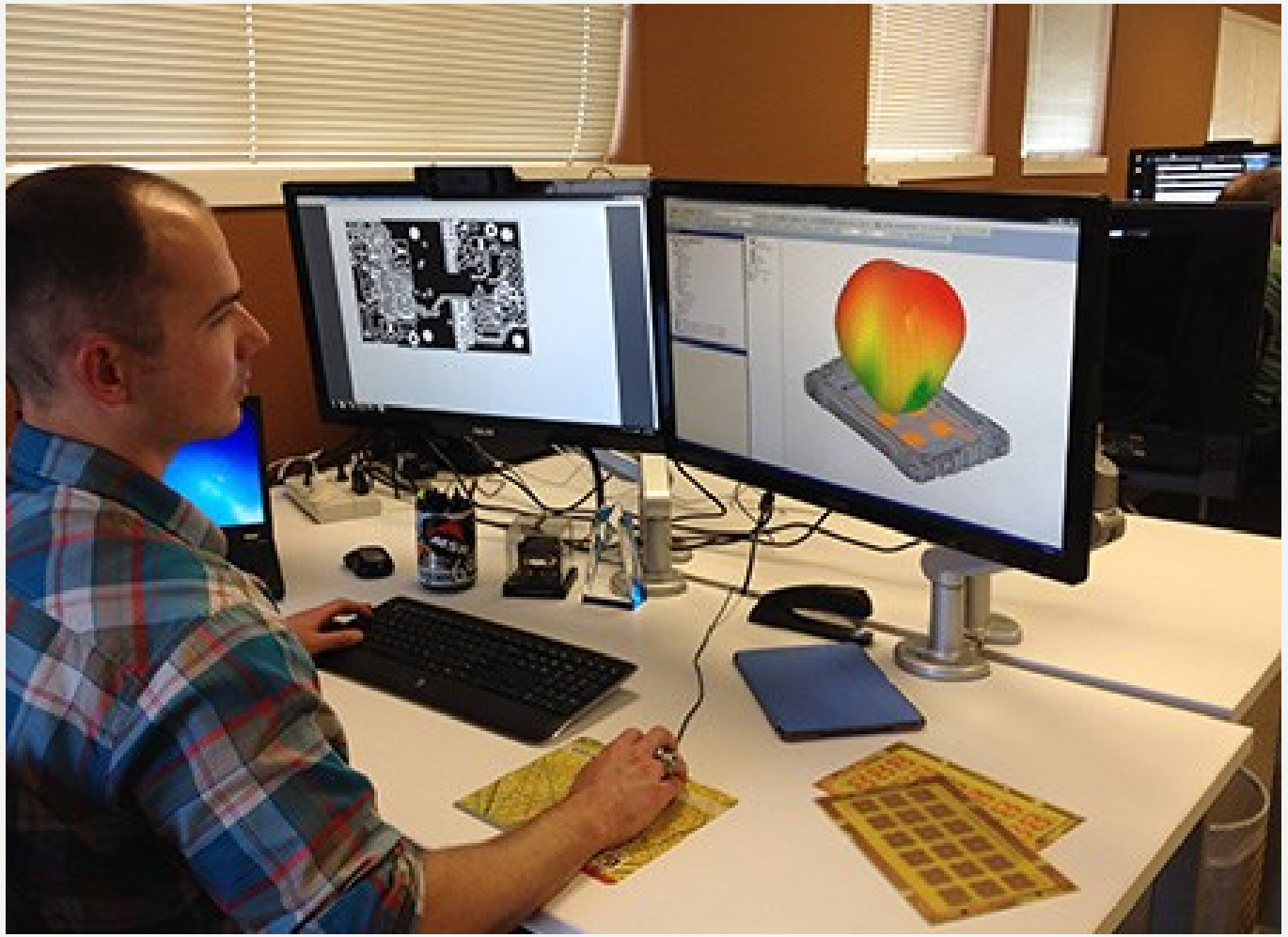
$$\Phi_F = \iint_S \boldsymbol{E}\cdot d\boldsymbol{S} = \iint_S \boldsymbol{E}\cdot \boldsymbol{u}_z \,\rho d\rho d\varphi$$

$$= \int_0^2 \int_0^\pi \sin\varphi \, d\varphi \ \rho^2 d\rho$$

$$= \int_0^2 \rho^2 d\rho \int_0^\pi \sin\varphi \, d\varphi = \frac{16}{3}$$

HOW THE NOVICE ANTENNA DESIGNER APPROACHED THE PROBLEM

HOW THE EXPERT ANTENNA DESIGNER APPROACHED IT



HOW THE WORK WAS DOCUMENTED

(blank on purpose)

WHAT THE CUSTOMER REALLY NEEDED